

公开版本

原产于美国、意大利、英国、
法国和台湾地区的
进口聚酰胺-6,6 切片产品

反倾销措施期终复审调查申请书

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附件 II-1



营业执照

(副本)

注册号 410400100000909(1-1)

名称 平顶山神马工程塑料有限责任公司
类型 有限责任公司
住所 平顶山市建设路东段(棉纺厂西侧)
法定代表人 杨建中
注册资本 贰亿壹仟叁佰玖拾叁万叁仟玖佰圆整
成立日期 1995年09月06日
营业期限 2006年08月23日至2030年11月06日
经营范围 制造,加工:塑料,化纤及其制品的原辅材料,塑料机械;仓储,房屋租赁;机械设备租赁;对外贸易:批发、零售:生铁、铁矿石、钢锭、钢坯、钢材、铝锭、建材、矿用机械设备、金属材料(不含贵金属)、橡胶制品、化工产品(不含危险化学品)及油脂(不含食用油和危险化学品)。*****
(依法须经批准的项目,经相关部门批准后方可开展经营活动)



登记机关



附件 II-2

授权委托书

平顶山神马工程塑料有限责任公司（下称委托方）特此全权委托北京市环中律师事务所及其指定的律师，代表委托方对美国、意大利、法国、英国和台湾地区向中国出口的聚酰胺-6,6切片提出反倾销期终复审调查申请。

北京市环中律师事务所律师的代理权限为：全权代理。具体代理权限为：

- 1、认真履行职责，及时依法保护委托方合法权益；
- 2、为反倾销期终复审事宜为委托方搜集和整理有关证据和材料；
- 3、起草反倾销期终复审调查申请书并准备附件材料；
- 4、代表委托方向中华人民共和国商务部提出反倾销期终复审调查的书面申请；
- 5、指导和协助委托方填写调查机关发放的调查问卷；
- 6、指导和协助委托方配合调查机关的实地核查工作；
- 7、代表委托方按照中华人民共和国商务部所规定的时间提供补充材料；
- 8、根据案件的进展情况，代表委托方向调查机关查阅应诉方的抗辩和评论意见，并及时提出相应反驳意见；
- 9、代表委托方参加题述案件的审理和听证；
- 10、代表委托方进行反倾销期终复审案件所需的其他工作。

本授权书所规定的权限在授权事宜完成时终结，或委托方认为有必要结束授权时终结。授权终结时，与之相对应的委托代理合同同时终止。

委托方：平顶山神马工程塑料有限责任公司

二〇一四年七月二十八日



附件 II-3

北京市环中律师事务所

BEIJING HUANZHONG & PARTNERS

地址：北京市朝阳区安立路68号阳光广场B2座29层

邮编：100101

电话：(86-10) 6489 6300

传真：(86-10) 6489 6292

电子信箱：wubixuan@huanzhonglaw.com

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Chaoyang District, Beijing 100101, China

Tel: (86-10) 6489 6300

Fax: (86-10) 6489 6292

E-mail: wubixuan@huanzhonglaw.com

代理律师指派书

为中国聚酰胺-6,6 切片产业向中华人民共和国商务部申请对原产于美国、意大利、法国、英国和台湾地区的进口聚酰胺-6,6 切片提起反倾销期终复审调查之目的,平顶山神马工程塑料有限责任公司授权北京市环中律师事务所作为其全权代理人,处理上述案件相关的全部事宜。

北京市环中律师事务所根据上述委托,特指派该所王雪华律师代理上述委托案件,处理《授权委托书》范围内的所有相关事宜。



律 师 事 务 所 执 业 许 可 证

(副 本)

证号: 21101199310439562

北京市环中

律师事务所,

符合《律师法》及《律师事务所管理办法》
规定的条件, 准予设立并执业。



发证机关:

发证日期:

北京市司法局

2013 年 05 月 21 日



律师事务所登记事项 (一)

名 称	北京市环中律师事务所
住 所	北京市朝阳区安立路 68 号阳光广场 B2 座 29 层 2901
负 责 人	王雪华
组织形式	普通合伙
设立资产	30 万元
主管机关	北京市朝阳区司法局
批准文号	京司发【1993】122 号
批准日期	1993-09-27

律师事务所登记事项 (二)

合 伙 人	刘 净 王雪华 孙卫宁
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律师事务所变更登记 (八)

退出合伙人姓名	日 期
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日
	年 月 日

律师事务所年度考核记录

考核年度	二〇一三年度
考核结果	
考核机关	北京市朝阳区司法局 专用章
考核日期	2013年6月-2014年

考核年度	二〇一四年度
考核结果	合格
考核机关	北京市朝阳区司法局 考核专用章
考核日期	2014年6月-2015年5月

考核年度	
考核结果	
考核机关	
考核日期	

执业机构 北京市环中律师事务所

执业证类别 专职律师

执业证号 11101199910406450

法律职业资格
或律师资格证号 (京)司律证字 2024 号

发证机关 北京市司法局

发证日期 2013 年 05 月 15 日



王雪华 11101199910406450

持证人 王雪华

性别 男

身份证号 110105196402087795

律师年度考核备案

考核年度	二〇一三年度
考核结果	称 职
备案机关	北京市司法局 专用章 律师年度考核备案
备案日期	2013年6月-2014年5月

律师年度考核备案

考核年度	
考核结果	
备案机关	
备案日期	

附件 II-4

中国合成树脂供销协会

中合供字【2014】第 26 号

证 明

根据本协会对中国大陆聚酰胺-6,6 切片产业的统计, 2008 年至 2014 年 6 月, 平顶山神马工程塑料有限责任公司以及全国总产量如下:

产量 (吨)	2008 年	2009 年	2010 年	2011 年	2012 年	2013 年	2013 年 1-6 月	2014 年 1-6 月
平顶山神马工程塑料有限责任公司	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
全国总产量	40,000	75,000	99,000	118,000	134,000	155,000	69,000	87,900

特此证明!



附件 II-5

中国合成树脂供销协会

中合供字【2014】第 27 号

证 明

根据本协会掌握的中国大陆聚酰胺-6,6 切片产业总出口量数据，
2008 年至 2014 年 6 月，全国总出口量如下：

出口量 (吨)	2008 年	2009 年	2010 年	2011 年	2012 年	2013 年	2013 年 1-6 月	2014 年 1-6 月
全国总 出口量	1,149	8,916	12,667	16,819	16,422	21,872	11,280	12,079

特此证明：

中国合成树脂供销协会

二〇一四年七月十八日



附件 IV-1

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关闭

杜邦中国独资企业

杜邦中国独资企业

杜邦中国集团有限公司
Du Pont China Holding Co.,Ltd.

地址： 中国广东省深圳特区车公庙工业区第五小区
邮政编码： 518040
District No. 5, Chegongmiao Industrial Area, Shenzhen, Guangdong 518040, PRC
电话(TEL): (86 755) 8330-7848
传真(FAX): (86 755) 8330-7047

北京分公司 Beijing Branch

地址： 中国北京市朝阳区建国路91号金地中心A座18层
邮政编码： 100022
18/F, Tower A, Gemdale Plaza No.91 Jianguo Road,Chaoyang District, Beijing 100022, PRC
电话(TEL): (86 10) 8557-1000
传真(FAX): (86 10) 8557-1888, 8557-1999

上海分公司 Shanghai Branch

地址： 中国上海浦东新区张江高科技园区科苑路399号11号楼
邮政编码： 201203
Bldg 11, 399 Keyuan Road, Zhangjiang Hi-Tech Park,Pudong New District, Shanghai 201203, PRC
电话(TEL): (86 21) 3862-2888
传真(FAX): (86 21) 3862-2889

广州分公司 Guangzhou Branch

地址： 中国广东省广州市天河区天河路208号粤海天城大厦4003B-4005单元
邮政编码： 510620
Units 4003B-4005 Teemtower, Teemall, 208 Tianhe Road,
Tianhe district, Guangzhou 510620, PRC
电话(TEL): (86 20) 3839-0222
传真(FAX): (86 20) 3839-0368, 3839-0398

成都分公司 Chengdu Branch

地址： 成都市人民南路二段1号仁恒置地广场15层1502单元
邮政编码： 610016
Unit 1502, 15/F, Yanlord Landmark Office Tower, No.1 Section 2, Renmin South Road, Chengdu 610016,PRC
电话: (86 28) 6511-1888
传真: (86 28) 6511-0585

北京第二分公司 Beijing No.2 Branch

地址： 中国北京市朝阳区东苇路金盛大街朝政汽车检测场培训楼B区
邮政编码： 100018
Zone B, Training bldg, Chaozheng Automobile Repair Place, Jinzhan Avenue, Dongwei Road, Chaoyang District,
Beijing 100018, PRC
电话(TEL): (86 10) 8433-4546
传真(FAX): (86 10) 8433-4547

东莞杜邦电子材料有限公司 Electronic Materials DuPont Dongguan Co., Ltd.

地址： 中国广东省东莞市南城区周溪管理区
邮政编码： 523000
Zhouxi, Nancheng District, Dongguan,Guangdong 523000, PRC
电话(TEL): (86 769) 2285-2999
传真(FAX): (86 769) 2240-4677

杜邦贸易（上海）有限公司
DuPont Trading (Shanghai) Co., Ltd.
地址： 中国上海浦东新区张江高科技园区科苑路399号11号楼

邮政编码: 201203 Bldg 11, 399 Keyuan Road, Zhangjiang Hi-Tech Park,Pudong New District, Shanghai 201203, PRC 电话(TEL): (86 21) 3862-2888 传真(FAX): (86 21) 3862-2889	
铁岭先锋种子研究有限公司 Tieling Pioneer Seed Research Co., Ltd.	
地址: 中国辽宁省沈阳市青年大街386号华阳大厦2162室 邮政编码: 110004 Suite 2162, Huayang Building, No. 386, Qingnian Street, Shenyang, Liaoning 110004, PRC 电话(TEL): (86 24) 2318-0900 传真(FAX): (86 24) 2318-0670	
杜邦钛白科技（上海）有限公司 DuPont Titanium Technology (Shanghai) Co., Ltd.	
地址: 中国上海市松江高科技园区寅西路450号 邮政编码: 201615 No. 450, Yinx Road, Songjiang High-Tech Park, Shanghai 201615, PRC 电话(TEL): (86 21) 6769-7288 传真(FAX): (86 21) 6769-7266	
杜邦郑州蛋白有限公司 DuPont Zhengzhou Protein Co., Ltd.	
地址: 中国河南省郑州市沙口路129号 邮政编码: 450053 No. 129, Shakou Road, Zhengzhou, Henan 450053, PRC 电话(TEL): (86 371) 6386-5599 传真(FAX): (86 371) 6391-5040	
杜邦（上海）采购中心有限公司 DuPont (Shanghai) Sourcing Center Co., Ltd.	
地址: 中国上海浦东新区张江高科技园区科苑路399号11号楼 邮政编码: 201203 Bldg 11, 399 Keyuan Road, Zhangjiang Hi-Tech Park,Pudong New District, Shanghai 201203, PRC 电话(TEL): (86 21) 3862-2888 传真(FAX): (86 21) 3862-2889	
杜邦（中国）研发管理有限公司 DuPont (China) Research & Development and Management Co., Ltd.	
地址: 中国上海市浦东新区张江高科技园区蔡伦路600号 邮政编码: 201203 No. 600, Cailun Road, Zhangjiang Hi-Tech Park,Pudong New District, Shanghai 201203, PRC 电话(TEL): (86 21) 2892-1000 传真(FAX): (86 21) 2892-1234	
杜邦安全评价（深圳）有限公司 DuPont Safety Assessment Center (Shenzhen) Co., Ltd.	
地址: 中国广东省深圳特区车公庙工业区第五小区行政楼1楼 邮政编码: 518040 1/F, Admin. Building, District No.5, Chegongmiao Industrial Area,Shenzhen, Guangdong 518040, PRC 电话(TEL): (86 755) 8330-7848 传真(FAX): (86 755) 8330-7047	
杜邦应用面材（广州）有限公司 DuPont Surfaces (Guangzhou) Co., Ltd.	
地址: 中国广东省广州市科学城南翔二路22号 邮政编码: 510663 No. 22, 2nd Nanxiang Road, Guangzhou Science Park,Guangzhou, Guangdong 510663, PRC 电话(TEL): (86 20) 3213-5000 传真(FAX): (86 20) 3213-5012, 3213-5015	
杜邦（深圳）实业有限公司 DuPont (Shenzhen) Industrial Co., Ltd.	
地址: 中国广东省深圳特区福田保税区桃花路32号鑫瑞科大厦2楼 邮政编码: 518038 2/F, Xinruike Building, No. 32, Taohua Road, Futian Free Trade Zone,Shenzhen, Guangdong 518038, PRC 电话(TEL): (86 755) 8359-1721 传真(FAX): (86 755) 8359-0045	
杜邦（常熟）氟化物科技有限公司 DuPont (Changshu) Fluoro Technology Co., Ltd.	
地址: 中国江苏省常熟市海虞镇兴虞路18号 邮政编码: 215522 No.18, Xingyu Road, Haiyu Town,Changshu, Jiangsu 215522, PRC 电话(TEL): (86 512) 5232-5031, 5232-5006 传真(FAX): (86 512) 5232-5200	
杜邦高性能弹性体贸易（上海）有限公司 DuPont Performance Elastomers Trading (Shanghai) Co., Ltd.	

地址：中国上海浦东新区张江高科技园区科苑路399号11号楼
邮政编码：201203
Bldg 11, 399 Keyuan Road, Zhangjiang Hi-Tech Park,Pudong New District, Shanghai 201203, PRC
电话(TEL): (86 21) 3862-2888
传真(FAX): (86 21) 3862-2889

杜邦太阳能（深圳）有限公司
DuPont Apollo (Shenzhen) Limited
地址：中国广东省深圳市光明新区光明高新区东片区杜邦太阳能科技工业园
邮政编码：518107
DuPont Apollo Hi-Tech Industrial Park, East Guangming Hi-Tech zone, Guangming New District,Shenzhen, Guangdong 518107, PRC
电话(TEL): (86 755) 8949-5000
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附件 IV-2



Home >> MATERIAL DATA >> Data Table

Polymert: - All -

Grade Name:

Region: - All -

Start Search

133

Search by Property

Reset

Help

CONTACT US

Change Units: SI / US

Data Sheet

Data Table

Compare

Show marked grades only Clear marked grades Add columns to create data table

Viewing 1-100 of 111 Grades

◀◀ ◀ ▶ ▶▶

Grade Name	Polymer	Product Short Description
☐ Zytel® 101 NC010	PA66	Unreinforced Polyamide 66
☐ Zytel® 101FBKB009	PA66	Unreinforced Polyamide 66
☐ Zytel® 101FNC010	PA66	Unreinforced Polyamide 66
☐ Zytel® 101LBKB009	PA66	Unreinforced Polyamide 66
☐ Zytel® 101LBKB080	PA66	Unreinforced Polyamide 66
☐ Zytel® 101L NC010	PA66	Unreinforced Polyamide 66
☐ Zytel® 103FHS BKB009	PA66	Unreinforced, Heat Stabilised, Polyamide 66
☐ Zytel® 103FHS BKB038	PA66	Unreinforced, Heat Stabilised, Polyamide 66
☐ Zytel® 103FHS NC010	PA66	Unreinforced, Heat Stabilised, Polyamide 66
☐ Zytel® 103FHSA NC010	PA66	Unreinforced, Heat Stabilised, Polyamide 66
☐ Zytel® 103HSLBKB080	PA66	Unreinforced, Heat Stabilised, Polyamide 66
* A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		

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附件 IV-3

非保密概要

附件 IV-1: 本附件之内容为申请书正文部分所提供的中国海关进出口数据的底层数据。本部分内容反映了调查期内美国、意大利、法国、英国和台湾地区被调查产品进口到中国的逐笔交易情况, 涉及交易双方的商业秘密, 故申请保密。

在申请书公开版本的正文部分, 根据本附件之内容整理、统计的中国海关进口数据已经作为公开信息全部披露。

附件 IV-4

平顶山神马工程塑料有限责任公司：

台湾线：USD80/TON (海运费+国内段包干费)

美国 (NEW YORK / SAVANNAH) :USD200/TON (不包含国内段包干费)

欧洲 (ROTTERDAM , HAMBURG) :USD90/TON (不包含国内段包干费)

有效期至 2014 年 7 月底，以上报价仅供参考用。

河南世通国际物流有限公司

2014-7-22

4100133650

河南世通国际物流

No 00114387

开票日期: 2014年2月6日

名称: 河南世通国际物流
纳税人识别号: 410116737425142
地址: 河南省郑州市郑东新区 CBD 内环 10 号 15 楼
开户行及账号: 中行河南省分行 USD 253300704551

货物名称: 代理海运费
规格型号: 集装箱
数量: 1
单位: 批
单价: 7093.16
金额: 7093.16
税率: 6%
税额: 425.59
合计: 7518.75
价税合计 (大写): 柒仟伍佰壹拾捌圆柒角伍分整



名称: 河南世通国际物流有限公司
纳税人识别号: 410116737425142
地址: 河南省郑州市郑东新区 CBD 内环 10 号 15 楼
开户行及账号: 中行河南省分行 USD 253300704551

USD1203.00 仅限美元支付
目的地: keelung, taiwan

开票人: 收款人: 备注: 单位: (元)

4100133650

No 00114392

开票日期: 2014年2月13日

名称:
纳税人识别号:
地址、电话:
开户行及账号:

货物名称及规格:
代理船运费

规格型号:
集装箱

单位:
批

数量:
1

单价:
7936.32

金额:
7936.32

税率:
0%

税额:
476.18

合计:
¥7936.32

合计:
¥8412.50

第二联: 发票联 购货方记账凭证

名称:
纳税人识别号:
地址、电话:
开户行及账号:

河南世通国际物流有限公司
410116737425142

河南省郑州市郑东新区 CBD 内环 10 号 15 楼
中行河南省分行—USD 253300704551

备注:
USD1346.00 仅限美元支付
目的地: **hamburg**

开票人:
销售单位: (章)

收款人:

无税

收款人:



4100133650

河南增信通发案

No 00114389

开票日期 2014年2月9日

名称:	6666/*--541*/-<<84*/-5512>/-*				
纳税人识别号:	5*<>>+2+0>0/15*4-856301*81/*-				
地址、电话:	///**254/-5/-5*/--845135//*-557				
开户行及账号:	//*/9/563-81<<<2-7+>3*945/*222				
货物或应税劳务名称	规格型号	单位	数量	单价	金额
代理费运费	集装箱	批	1	7959.91	7959.91
含税合计(大写)					¥7959.91
价税合计(小写)					¥8437.50
名称:	USD1350.00 仅限美元支付				
纳税人识别号:	410116737425142				
地址、电话:	河南省郑州市郑东新区 CBD 内环 10 号 15 楼				
开户行及账号:	中行河南省分行 USD 253300704551				



开票人:

收款人:

单位: (章)

目的港: rotterdam

河南增信通发

4100133650

No 00114385

开票日期: 2014年1月13日

购货单位	名称: 河南增信通发	纳税人识别号: 4100133650	地址: 郑州市东新区 CBD 内环 10 号 15 楼	开户行及账号: 中行河南省分行 USD 253300704551	收货人: 王
销售单位	名称: 河南世通国际物流有限公司	纳税人识别号: 410116737425142	地址: 郑州市东新区 CBD 内环 10 号 15 楼	开户行及账号: 中行河南省分行 USD 253300704551	发货人: 王
货物名称	代理海运费	数量	单位	税率	税额
规格型号	集装箱	1	批	6%	1056.37
单价	17606.13				
金额	17606.13				
合计					¥1056.37
含税合计 (大写)					¥18662.50
备注	USD2986.00 仅限美元支付 目的港: new york,usa				

第二联: 发货联 购货方记账凭证

税票号: [2013] 423号 武汉新文泰印刷有限公司



4100133650

河南增信通发展



No 00114388

2014年1月26日

名称:	8654/*---541*/-<<84*/-5512>/-*					税额	
纳税人识别号:	6*0>>+2+0>0/15*4-856301*81/*-					税率	1065.57
地址、电话:	/87*-254/-5/-5*//--845135//*-557					金额	6%
开户行及账号:	/749/563-81<<<2-7+>3545/*2<7<					单价	17759.43
货物或应税劳务名称:	规格型号	单位	数量	税率	税额	金额	税额
代理费	集装箱	批	1			17759.43	1065.57
						¥17759.43	¥1065.57
合计						¥17759.43	¥1065.57
价税合计(大写)	壹万捌仟捌佰玖拾伍圆整						¥18825.00
名称:	河南世通国际物流有限公司						
纳税人识别号:	410116737425142						
地址、电话:	河南省郑州市郑东新区 CBD 内环 10 号 15 楼						
开户行及账号:	中行河南省分行 USD 253300704551						
收款人:	开票人:						
销货单位:	结货单位: (章)						



河南增值税专用发票

4100133650

No 0011438b

开票日期: 2014年1月14日

购货单位名称	河南世通国际物流有限公司		纳税人识别号	985468873546675171748*/>>3*	
地址	郑州市郑东新区CBD内环10号15楼		电话	/749/563-81<<<2-7+>3545/*2<7<	
开户行及账号	中行河南省分行		开户行及账号	56*<>>+2+0/15*4-856301*81/*-	
货物名称	代理海运费	规格型号	集装箱	数量	1
单位	批	单价	7063.68	金额	7063.68
税率	6%	税额	¥423.82	合计	¥7487.50
价税合计(大写)	柒仟肆佰捌拾柒圆伍角整				
销货单位名称	河南世通国际物流有限公司		纳税人识别号	410116737425142	
地址	郑州市郑东新区CBD内环10号15楼		电话	56*<>>+2+0/15*4-856301*81/*-	
开户行及账号	中行河南省分行		开户行及账号	187*-254/-5/-5*/--845135/*-544	
收款人	开票人		销货单位: (章)		



目的港	金額	重量
HAMBURG	USD1346	15TON
ROTTERDAM	USD1350	15TON
SAVANNAH	USD3012	15TON
KEELUNG	USD1203	15TON
NEW YORK	USD2986	15TON



附件 IV-5

境内环节费用证明

兹证明，2013 年 7 月至 2014 年 6 月期间，我公司自产聚酰胺-6,6 切片的单位运输、销售、保险等费用占销售价格的平均比率为 2%。

其中：单位运费：380 元/吨，占比为 1.69%；

单位销售费用：60 元/吨，占比为 0.27%；

单位保险费及其他：10 元/吨，占比为 0.04%。

平顶山神马工程塑料有限责任公司

2014 年 7 月 22 日



公路、内河货物运输业统一发票（自开）

开票日期：

2013-07-31

存根联

发票代码 241001310010
发票号码 00104828

机打代码 机打号码 机器编号		241001310010 00104828 929100018542		税控码		02382128*<99626//<46*3--35->40-*8672 50*<-4<23-/44*0<>+9-5*14-49570/3/-2* 28033358874/7/-0*80>*6046823/7561195 28/++54>4/3/8<595301<*9759=415<9*1/2					
收货人及 纳税人识别号		上海捷诺塑胶制品有限公司		承运人及 纳税人识别号		平顶山市黄联汽车运输有限责任公司					
发货人及 纳税人识别号		310229749589558		主管税务机关 及代码		平顶山市卫东区地税局建设路税务所					
运输项目 及金额		尼龙66树脂		数量(重量)		单位运价		计费里程		金额	
		66.0000		0.4375		960.000		27720.00			
其他项目 及金额		费用名称		金额		备注					
								豫D37319豫D58939平顶山-上海			
运费小计		¥27720.00		其他费用小计		¥0.00					
合计(大写)		贰万柒仟柒佰贰拾元整		(小写)		¥27720.00					

承运人盖章：

开票人：

李固本

第四联 存根联 收款方留存备查

(手写无效)

公路、内河货物运输业统一发票 (自开)

存根联

发票代码 241001310010
发票号码 00103343

开票日期: 2013-06-21

机打代码	241001310010	税控码	0237*9877*/-76712>-+205-*3-/8+>58/7+3-1039->*03-0803<5-5*>86/765380370+422->/<784<51*06*32/1541419<888<+1+/0+84>2<-+*0</419-8+01/*97>001>9+*5286		
机打号码	00103343				
机器编号	929100018542				
收货人及纳税人识别号	上海日晶工程塑料科技有限公司		承运人及纳税人识别号	平顶山市黄联汽车运输有限责任公司	
发 货 人 及 纳税人识别号	+310227677872900 神马实业股份有限公司		主管税务机关及代 码	410403763110486 平顶山市卫东区地税局建设路税务所	
运 输 项 目 及 金 额	货物名称	数量(重量)	单位运价	计费里程	金额
	尼龙66树脂	20.0000	0.3600	1000.000	7200.00
运 费 小 计	¥7200.00		其他费用小计	¥0.00	
合计(大写)	柒仟贰佰元整		(小写) ¥7200.00		

承运人盖章:

开票人: 李国本

第四联 存根联 收款方留存备查 (手写无效)

公路、内河货物运输业统一发票 (自开)

存 根 联

开票日期:

2013-07-31

发票代码 241001310010
发票号码 00104557

机打代码		241001310010		税控码		02-/4-6<5*83/810781<8715-5/<<8/88475 >4+>66-8+<>><*3><9862->-*3*>80*+42-7 /<-22-/-02++62>*31*+*5153/32-+43-2< *+096935*7**+0-69901<*972<<642904+-+	
机打号码		00104557		承运人及纳税人识别号		平顶山市黄联汽车运输有限责任公司 410403763110486	
机器编号		929100018542		主管税务机关及代码		平顶山市卫东区地税局建设路税务所 241040310	
收货人及纳税人识别号		上海池安实业有限公司 +310112773745928					
发货人及纳税人识别号		神马实业股份有限公司 410403169972489					
运输项目		货物名称		数量(重量)		单位运价	
		尼龙66树脂		21.0000		0.3220	
		尼龙66切片		2.0000		0.3580	
		PA66树脂		4.5000		0.4030	
		PA66切片		35.0000		0.3890	
		其他项目		其他项目		其他项目	
		金额		金额		金额	
		6946.00		716.00		1813.90	
		13615.00					
运费小计		¥22990.50		其他费用小计		¥0.00	
合计(大写)		贰万贰仟玖佰玖拾元伍角		(小写)		¥22990.50	

承运人盖章:

开票人:

李固本

第四联 存根联 收款方留存备查

(手写无效)

附件 IV-6

CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Spot prices for caprolactam in Asia drop further, but July contracts are mostly flat
- Caprolactam buyers and sellers in Europe keep sharing the decrease in benzene prices
- Cash flow becomes a critical issue in Chinese textile markets
- European polyamide hosiery season starts late and volumes are lower
- Flagging demand for ammonia in agriculture and industry pushes prices lower
- BASF plans to build a new 100 ktpa polyamide polymerisation unit in Shanghai

Caprolactam

North American caprolactam producers still have plenty of cost advantages, but many find that low spot prices in Asia are deeply unattractive. In Europe, decreases of €35/ton have been agreed in several sets of July contract price negotiations, indicating that buyers and sellers have each claimed half of the €67/ton decrease in benzene prices. A wide gap re-emerges in Asia between mainly steady contract prices and spot prices, which have fallen sharply.

Nylon66 Intermediates

The 5 c/gal decrease in June benzene prices has no appreciable effect on July prices for adipic acid in the US, which remain at just above \$1.00/lb ddp. The price trend in Europe is flat despite supply reductions and efforts to raise both prices and margins. June prices were mostly unchanged from May, and there has been a further rollover for some customers in July. Chinese demand remained weak, with the market currently in the off-season for most chemical products

Polyamide Polymer

Polyamide 6 polymer prices in North America have mostly rolled over from June into July at unchanged levels. Prices quoted at a steady \$1.32-1.36/lb ddp find general acceptance among buyers and sellers. In Europe, heavy discounting in June created a wide range for polyamide 6 polymer prices, but the lowest June prices have disappeared in July. In Asia and China, polyamide 6 markets have followed caprolactam prices on a downward trend, while polyamide 66 markets have been stable.

Polyamide Fibre

Poor demand, increasing inventories and rising raw materials have resulted in Chinese polyamide filament producers losing extrusion margin and lowering utilisation rates. US polyamide BCF shipments are good despite the 4 July holiday and share losses to polyester BCF due to stronger residential and commercial carpet demands. Textile filament demand weakened in the US with the approaching holiday, but remained above expectations. West European filament demand registered few changes in June except for modest improvements in the hosiery sector.

价格追踪

美国价

		2013年4月 美分/磅	2013年5月 美分/磅	2013年6月 美分/磅	2013年7月29日 美分/磅		2013年7月29日 美元/吨
纯苯	合同 °	436.0	447.0	442.0	407.0	离岸价	1218
	现货 °	448	445	405 - 410	422	离岸价	1263
苯酚	散货合同	84.1 - 88.1	85.6 - 89.6	84.9 - 88.9	80.1 - 84.1	完税后交货	1766 - 1854
	出口	53.0 - 60.0	54.0 - 60.0	60.0 - 64.0 ‡	63.0 - 68.0	离岸价	1389 - 1499
环己烷	合同货挂牌 °	401	410	406	377	离岸价	1274
	合同 交易 °	394 - 400	405 - 411	400 - 406	369 - 375	离岸价	1247 - 1268
己二酸	合同	100 - 105	100 - 105	100 - 105	100 - 105	完税后交货	2205 - 2315
己内酰胺	出口 (固体)	99.8 - 102.1	102.1 - 104.3	104.3 - 105.2	104.3 - 105.2	离岸价	2300 - 2320
尼龙6	工程塑料树脂,原生,新客户	132.0 - 136.0	132.0 - 136.0	132.0 - 136.0	132.0 - 136.0	完税后交货	2910 - 2998
尼龙66	长丝						
	40旦 POY	280 - 285	280 - 285	280 - 285	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	235 - 240	231 - 240	231 - 240	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	185 - 190	185 - 190	185 - 190	185 - 190	完税后交货	4079 - 4189
	工程塑料树脂,原生,新客户	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	完税后交货	3086 - 3197

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	992	1056	1056	978	离岸价	1297
	现货 ARA	1075 - 1083	1066 - 1089	972	927 - 935	含保险到岸	1230 - 1240
苯酚	散货合同	1483 - 1523	1547 - 1587	1536 - 1576	1469 - 1509	完税后交货	1948 - 2001
	国内现货	1218 - 1349	1284 - 1324	1280 - 1330	1166 - 1215	完税后交货	1546 - 1611
环己烷	合同	1140	1204	1193	1129	离岸价	1497
己二酸	新合同	1680 - 1720	1680 - 1720	1680 - 1720	1680 - 1720	完税后交货	2228 - 2281
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300 †	完税后交货	2918 - 3050
己内酰胺	新合同, 液体 (每月)	1860 - 1925	1890 - 1965 ‡	1885 - 1955	1850 - 1915	完税后交货	2454 - 2540
	出口 (固体)	1690 - 1728	1751 - 1789	1744 - 1775	1719 - 1749	离岸价	2280 - 2320
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	不详	不详	不详	不详	完税后交货	不详
	工程塑料树脂,原生	2000 - 2050	2000 - 2050	1900 - 2050	1950 - 2050	完税后交货	2586 - 2719
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	完税后交货	8621 - 8753
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	完税后交货	5968 - 6101
	工程塑料树脂,原生	2300 - 2350	2300 - 2350	2300 - 2350	2300 - 2350	完税后交货	3050 - 3117

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户 (用量为几百吨/年) ² = 欧元/千克
† = 暂定 ‡ = 校正

当天美元兑换率 (2013年7月26日)

欧元: 0.754 英镑: 0.651 (1/1.53) 日元: 98.1 新台币: 29.91 韩元: 1111.15 人民币: 6.13 卢比: 58.98

当天欧元兑换率 (2013年7月26日)

美元: 1.326 英镑: 0.863 (1/1.15) 日元: 130.1

本报告所包含的信息皆来自可信的资料来源，
但是对任何声称跟据本报告内容所做的商业决策，英国泰可荣全球化学有限公司概不负责。

未经英国泰可荣全球化学有限公司书面许可，严禁以任何方式对本报告的任何内容加以抄袭。

CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Asian caprolactam contract prices dip in August while spot prices rise
- China's first-half 2013 caprolactam imports are 45% lower than last year
- Power restrictions in China are affecting the textile supply chain
- Demand and pricing weakness in Chinese polyamide filament markets
- US polyamide manufacturers running hard to keep up with carpet demand
- Polyamide 66 polymer prices hold steady despite butadiene market collapse

Caprolactam

The US domestic market is a bright spot for caprolactam producers, since demand for polyamide products appears to be increasing. Contract prices in Europe remain unsettled as buyers and sellers argue about how recent decreases in benzene contract prices should be shared among them. Contract prices in Asia for August are slightly lower than for July, but spot prices have turned a corner and are on a slight upward trend.

Polyamide Polymer

US prices for polyamide 6 polymer are mostly flat, but decreases are noted here and there. The collapse in butadiene prices in Europe has put downward pressure on polyamide 66 polymer prices in Europe, but production problems at one polymerisation unit are helping to keep market prices steady in August. Chinese prices for polyamide 6 engineering resin have been driven down by the decrease in caprolactam contract prices and a weak downstream market.

Nylon66 Intermediates

Irrespective of benzene's ups and downs, North American adipic acid prices have hovered around \$1.00/lb for months. The Asian adipic acid market saw some upturn in August. Japanese market activity was up in August, and the Chinese adipic acid market saw attempts to increase prices this month, although demand remained soft.

Polyamide Fibre

Weakening demand and decreasing feedstock costs moved Chinese polyamide filament prices lower during July. Power restrictions due to extremely hot weather have forced some producers in Zhejiang and Jiangsu provinces to shut production. US polyamide BCF demand has returned to good levels following July holidays with vertical carpet producers reporting 100% utilisation. West European polyamide filament shipments, with the exception of light denier products for ladies hosiery, weakened throughout July as the supply chain prepared for August's holiday period.

价格追踪

美国价

		2013年5月 美分/磅	2013年6月 美分/磅	2013年7月 美分/磅	2013年8月28日 美分/磅		2013年8月28日 美元/吨
纯苯	合同 °	447.0	442.0	407.0	417.0	离岸价	1248
	现货 °	445	432 - 442	422	430 - 438	离岸价	1287 - 1311
苯酚	散货合同	85.6 - 89.6	84.9 - 88.9	80.1 - 84.1	81.5 - 85.5	完税后交货	1797 - 1885
	出口	54.0 - 60.0	60.0 - 64.0 ‡	63.0 - 68.0	64.0 - 70.0	离岸价	1411 - 1543
环己烷	合同挂牌牌 °	410	406	377	386	离岸价	1305
	合同 交易 °	405 - 411	400 - 406	369 - 375	377 - 382	离岸价	1274 - 1291
己二酸	合同	100 - 105	100 - 105	100 - 105	100 - 105	完税后交货	2205 - 2315
己内酰胺	出口 (固体)	102.1 - 104.3	104.3 - 105.2	104.3 - 105.2	102.1 - 106.6	离岸价	2250 - 2350
尼龙6	工程塑料树脂,原生,新客户	132.0 - 136.0	132.0 - 136.0	132.0 - 136.0	130.0 - 134.0	完税后交货	2866 - 2954
尼龙66	长丝						
	40旦 POY	280 - 285	280 - 285	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	231 - 240	231 - 240	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	185 - 190	185 - 190	185 - 190	185 - 190	完税后交货	4079 - 4189
	工程塑料树脂,原生,新客户	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	完税后交货	3086 - 3197

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	1056	1045	978	946	离岸价	1266
	现货 ARA	1066 - 1089	972	927 - 935	971	含保险到岸	1300
苯酚	散货合同	1547 - 1587	1536 - 1576	1469 - 1509	1437 - 1477	完税后交货	1924 - 1977
	国内现货	1284 - 1324	1280 - 1330	1166 - 1215	1126 - 1174	完税后交货	1508 - 1572
环己烷	合同	1204	1193	1129	1097	离岸价	1469
己二酸	新合同	1680 - 1720	1680 - 1720	1680 - 1720	1680 - 1720 †	完税后交货	2249 - 2303
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300 †	完税后交货	2945 - 3079
己内酰胺	新合同, 液体 (每月)	1890 - 1965 ‡	1885 - 1955	1850 - 1915	不详	完税后交货	不详
	出口 (固体)	1751 - 1789	1744 - 1775	1719 - 1749	1681 - 1718	离岸价	2250 - 2300
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	不详	不详	不详	不详	完税后交货	不详
	工程塑料树脂,原生	2000 - 2050	1900 - 2050	1950 - 2050	1950 - 2050	完税后交货	2610 - 2744
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	完税后交货	8701 - 8835
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	完税后交货	6024 - 6158
	工程塑料树脂,原生	2300 - 2350	2300 - 2350	2300 - 2350	2300 - 2350	完税后交货	3079 - 3146

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户 (用量为几百吨/年) ² = 欧元/千克
† = 暂定 ‡ = 校正

当天美元兑换率 (2013年8月27日)

欧元: 0.747 英镑: 0.644 (1/1.55) 日元: 97.2 新台币: 29.99 韩元: 1116.33 人民币: 6.12 卢比: 65.97

当天欧元兑换率 (2013年8月27日)

美元: 1.339 英镑: 0.862 (1/1.16) 日元: 130.1

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Benzene spot prices retreat from late-August highs, reducing nylon losses
- China caprolactam prices rise after delays in new plant start-ups
- European polyamide 66 polymer prices are weak and may remain so
- Brazil slaps extra duty on nylon filament from Thailand, Taiwan and China
- Abatement of summer power restrictions boosts Chinese nylon production
- US carpet industry tilts to polyester but advances growth in polyamide

Caprolactam

Caprolactam production in North America remains highly cost-competitive, but it remains difficult for producers to improve margins. Most buyers and sellers in Europe have agreed to increase caprolactam contract prices in September by around €15/ton, almost reversing the decreases of €16/ton that were applied to most contract prices in August. The upward trend in caprolactam prices in the past month has been welcomed by caprolactam producers in Northeast Asia, but higher prices have done little to restore margins.

Polyamide Polymer

Competitive pressures have been having a negative effect on polyamide 6 polymer prices in North America in recent weeks. In West Europe, prices for polyamide 6 polymer are steady, demand is steady, supply is steady and every aspect of the market is described as steady by buyers, sellers and anyone else involved in the market. Demand for polyamide 6 engineering thermoplastic resins in Asian export markets, including China, has been lacklustre for several months and shows no sign of increasing in September. In China, polyamide 6 polymer prices have moved higher on firmer caprolactam.

Nylon66 Intermediates

The US market is mixed, but the recent pressure from a rising benzene markets continues to bear on the adipic acid market. Some of the elements that might have contributed to an upward trend in European prices in the third quarter have been limited in their effects. Chinese prices have moved up since mid-August in line with stronger benzene and increased contract prices. Nevertheless, most producers are still running their plants with negative margins.

Polyamide Fibre

Although Chinese polyamide filament utilisation rates have modestly recovered in the last month as power restrictions were lifted, excessive stocks and a weak start to China's traditional high demand textile season have prevented producers from recovering recent polymer cost increases in filament pricing. North American polyamide textile shipments have slowed due to weaker demand in seamless and circular knit markets. Early season optimism in West European hosiery markets has waned as retail supply chains report sufficient stocks.

价格追踪

美国价

		2013年6月 美分/磅	2013年7月 美分/磅	2013年8月 美分/磅	2013年9月27日 美分/磅	2013年9月27日 美元/吨
纯苯	合同 °	442.0	407.0	417.0	440.0	离岸价 1317
	现货 °	432 - 442	422	430 - 438	440	离岸价 1317
苯酚	散货合同	84.9 - 88.9	80.1 - 84.1	81.5 - 85.5	84.6 - 88.6	完税后交货 1865 - 1953
	出口	60.0 - 64.0 ‡	63.0 - 68.0	64.0 - 70.0	65.0 - 72.5	离岸价 1433 - 1598
环己烷	合同货挂牌 °	406	377	386	405	离岸价 1369
	合同 交易 °	400 - 406	369 - 375	377 - 382	396 - 400	离岸价 1338 - 1352
己二酸	合同	100 - 105	100 - 105	100 - 105	95 - 105	完税后交货 2094 - 2315
己内酰胺	出口 (固体)	104.3 - 105.2	104.3 - 105.2	102.1 - 106.6	104.3 - 106.6	离岸价 2300 - 2350
尼龙6	工程塑料树脂,原生,新客户	135.0 - 136.0	132.0 - 136.0	130.0 - 134.0	127.0 - 132.0	完税后交货 2800 - 2910
尼龙66	长丝					
	40旦 POY	280 - 285	288 - 292	288 - 292	288 - 292	完税后交货 6349 - 6437
	70/34 旦 POY	231 - 240	238 - 245	238 - 245	238 - 245	完税后交货 5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货 5137 - 5512
	短纤					
	15-19旦 (非品牌)	185 - 190	185 - 190	185 - 190	185 - 190	完税后交货 4079 - 4189
	工程塑料树脂,原生,新客户	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	完税后交货 3086 - 3197

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨	美元/吨
纯苯	合同 (西北欧送到)	1045	978	946	977	离岸价 1317
	现货 ARA	972	927 - 935	971	935 - 942	含保险到岸 1260 - 1270
苯酚	散货合同	1536 - 1576	1469 - 1509	1437 - 1477	1468 - 1508	完税后交货 1978 - 2032
	国内现货	1280 - 1330	1166 - 1215	1126 - 1174	1138 - 1195	完税后交货 1534 - 1611
环己烷	合同	1193	1129	1097	1128	离岸价 1520
己二酸	新合同	1680 - 1720	1680 - 1720	1680 - 1720	1680 - 1720	完税后交货 2264 - 2318
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货 2965 - 3100
己内酰胺	新合同, 液体 (每月)	1885 - 1955	1850 - 1915	1835 - 1900 ‡	1850 - 1915	完税后交货 2493 - 2581
	出口 (固体)	1744 - 1775	1719 - 1749	1681 - 1718	1707 - 1744	离岸价 2300 - 2350
尼龙6	长丝					
	44分特 轴上 半光 (经编) ²	不详	不详	不详	不详	完税后交货 不详
	工程塑料树脂,原生	1900 - 2050 ‡	1950 - 2050	1950 - 2050	1950 - 2050	完税后交货 2628 - 2763
尼龙66	长丝					
	22 分特 变形丝 (针织品) ²	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	完税后交货 8760 - 8895
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	完税后交货 6065 - 6199
	工程塑料树脂,原生	2300 - 2350	2300 - 2350	2300 - 2350	2280 - 2350	完税后交货 3073 - 3167

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
‡ = 校正

当天美元兑换率 (2013年9月26日)

欧元: 0.742 英镑: 0.625 (1/1.60) 日元: 99.0 新台币: 29.57 韩元: 1075.10 人民币: 6.12 卢比: 62.07

当天欧元兑换率 (2013年9月26日)

美元: 1.348 英镑: 0.842 (1/1.18) 日元: 133.4

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Flagging benzene market points toward caprolactam price decreases in November
- European contract prices for caprolactam slide by €30/ton in October
- Press reports revive speculation about possible bidders for DSM's caprolactam business
- US polyamide BCF demand underpinned by commercial and automotive flooring
- Chinese polyamide filament producers lift utilisation on pre-holiday demand
- Price declines show weakness of European polyamide polymer markets

Caprolactam

Asian contract prices for caprolactam have risen in October, reaching \$2415-2430/ton cfr in Taiwan and \$2410-2430/ton in China. At the same time, spot prices have edged downwards during the month. The rapid deterioration of the ammonium sulphate market has become something of a headache for caprolactam producers, who are finding it difficult to dispose of AS co-product profitably. Buyers and sellers in Europe have agreed October price decreases of around €30/ton for caprolactam.

Nylon66 Intermediates

What appears to be dragging down adipic acid prices in North America is the general weakness of global markets that has come with the rapid expansion of new capacity in China. Shifting patterns of supply and demand in the past two years have led to a levelling of price trends in all regions. In Europe, an October decrease of around €20/ton has been agreed at some accounts. In China, quality differences are creating a two-tier market.

Polyamide Polymer

A downward price trend in North American polyamide 6 polymer prices continues in October. Downward pressure started to bear on the market in August and has been maintained as sellers compete for customers. Competition is also having a negative effect on prices in Europe as autumn demand has fallen well below expectations. In China, the gap is widening between high-speed spinning chips and polyamide 6 polymer for use in engineering plastics applications.

Polyamide Fibre

Pre-holiday stocking resulted in improved polyamide 6 filament shipments in China during late September allowing producers to raise filament prices and preserve margin despite increasing polymer costs. Although North American polyamide BCF shipments remain strong, textile and industrial sectors have weakened in the last month. West European polyamide markets are mixed with hosiery and weaving sectors improving, warp knit demand steady and circular knit and seamless businesses suffering.

价格追踪

美国价

		2013年7月 美分/磅	2013年8月 美分/磅	2013年9月 美分/磅	2013年10月29日 美分/磅	2013年10月29日 美元/吨
纯苯	合同 °	407.0	417.0	440.0	437.0	离岸价 1308
	现货 °	422	430 - 438	440	413	离岸价 1236
苯酚	散货合同	80.1 - 84.1	81.5 - 85.5	84.6 - 88.6	84.2 - 88.2	完税后交货 1856 - 1944
	出口	63.0 - 68.0	64.0 - 70.0	65.0 - 72.5	不详	离岸价 不详
环己烷	合同货挂牌 °	377	386	405	402	离岸价 1359
	合同 交易 °	369 - 375	377 - 382	396 - 400	393 - 399	离岸价 1328 - 1349
己二酸	合同	100 - 105	100 - 105	95 - 105 ‡	90 - 100	完税后交货 1984 - 2205
己内酰胺	出口 (固体)	104.3 - 105.2	102.1 - 106.6	104.3 - 106.6	106.1 - 107.5	离岸价 2340 - 2370
尼龙6	工程塑料树脂,原生,新客户	132.0 - 136.0	130.0 - 134.0	127.0 - 132.0	125.0 - 130.0	完税后交货 2756 - 2866
尼龙66	长丝					
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货 6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货 5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货 5137 - 5512
	短纤					
	15-19旦 (非品牌)	185 - 190	185 - 190	185 - 190	185 - 190	完税后交货 4079 - 4189
	工程塑料树脂,原生,新客户	140.0 - 145.0	140.0 - 145.0	140.0 - 145.0	137.0 - 142.0	完税后交货 3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨	美元/吨
纯苯	合同 (西北欧送到)	978	946	977	926	离岸价 1277
	现货 ARA	927 - 935	971	935	852	含保险到岸 1175
苯酚	散货合同	1469 - 1509	1437 - 1477	1468 - 1508	1417 - 1457	完税后交货 1954 - 2010
	国内现货	1197 - 1246	1168 - 1218	1193 - 1253	1148 - 1198	完税后交货 1584 - 1653
环己烷	合同 (西北欧送到)	1129	1097	1128	1077	出厂价 1486
己二酸	新合同	1680 - 1720	1680 - 1720	1680 - 1720	1650 - 1700	完税后交货 2276 - 2345
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300 †	完税后交货 3034 - 3172
己内酰胺	新合同, 液体 (每月)	1850 - 1915	1835 - 1900 ‡	1850 - 1915	1820 - 1885	完税后交货 2510 - 2600
	出口 (固体)	1719 - 1749	1681 - 1718	1707 - 1744	1697 - 1718	离岸价 2340 - 2370
尼龙6	长丝					
	44分特 轴上 半光 (经编) ²	不详	不详	不详	不详	完税后交货 不详
	工程塑料树脂,原生	1950 - 2050	1950 - 2050	1950 - 2050	1900 - 2050	完税后交货 2621 - 2828
尼龙66	长丝					
	22 分特 变形丝 (针织品) ²	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	6.50 - 6.60	完税后交货 8966 - 9103
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	完税后交货 6207 - 6345
	工程塑料树脂,原生	2300 - 2350	2300 - 2350	2280 - 2350	2250 - 2350	完税后交货 3103 - 3241

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
† = 暂定 ‡ = 校正

当天美元兑换率 (2013年10月28日)

欧元: 0.725 英镑: 0.620 (1/1.61) 日元: 97.7 新台币: 29.40 韩元: 1061.05 人民币: 6.09 卢比: 61.51

当天欧元兑换率 (2013年10月28日)

美元: 1.379 英镑: 0.855 (1/1.16) 日元: 134.8

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Asian spot prices for caprolactam dip below \$2300/ton cfr on weak demand
- Export prices for adipic acid from Japan are lower again in November
- Benzene spot prices rebound in Europe and North America after contract price decreases
- High fabric inventories in China are clogging the polyamide supply chain
- Carpet fibre plants in North America are running at high rates as demand climbs
- Polyamide 6 polymer prices in Europe drift lower as demand outlook worsens

Caprolactam

Lower benzene prices in Europe and North America are prominent factors in lower caprolactam prices in November. Contract prices in Europe have fallen by €50/ton in some cases, but not all business has been settled. Efforts to hold Asian contract prices for caprolactam above \$2400/ton cfr in November were unsuccessful, mainly because spot caprolactam has been trading at prices lower than \$2300/ton cfr Northeast Asia this month.

Nylon66 Intermediates

Receding benzene values in early November have maintained downward pressure on adipic acid prices in North America, but the market is otherwise described as stable. European buyers have negotiated November price reductions reflecting most of the benzene decrease, but producers have gained some margin improvement. Chinese demand remains poor at the moment as November is the traditional slow season for many downstream polyurethane applications. Prices have also softened in November.

Polyamide Polymer

Downward pressure on polyamide 6 polymer prices in North America continued in October, but the market shows signs of stabilising in November. In Europe, big buyers were easily achieving €1.95/kg ddp for polyamide 6 engineering resin in October and €1.90/kg ddp has become a typical price in November. Recovery in Japan's automotive sector and a moderate revival of the country's electric/electronic sector are creating renewed growth in demand for polyamide polymer. In China prices for the polymer softened as caprolactam lost ground.

Polyamide Fibre

In China, downstream stocks continue to clog supply chains and suppress filament sales. Stocks are building at producers in Taiwan and, with caprolactam prices falling, filament buyers are delaying purchases. North American polyamide BCF producers report full plant utilisation whilst stronger demand in the textile sector is attributed to the circular knit and hosiery sectors. Stronger demand in West Europe is driven mainly by the circular knit and hosiery markets, whilst shipments to the weaving sector continue to improve.

价格追踪

美国价

		2013年8月 美分/磅	2013年9月 美分/磅	2013年10月 美分/磅	2013年11月26日 美分/磅	2013年11月26日 美元/吨
纯苯	合同 °	417.0	440.0	437.0	410.0	离岸价
	现货 °	430 - 438	440	405	450	离岸价
苯酚	散货合同	81.5 - 85.5	84.6 - 88.6	84.2 - 88.2	80.5 - 84.5	完税后交货
	出口	64.0 - 70.0	65.0 - 72.5	不详	不详	离岸价
环己烷	合同货挂牌 °	386	405	402	380	离岸价
	合同 交易 °	377 - 382	396 - 400	393 - 399	372 - 388	离岸价
己二酸	合同	100 - 105	95 - 105	90 - 100	90 - 100	完税后交货
己内酰胺	出口 (固体)	102.1 - 106.6	104.3 - 106.6	106.1 - 107.5	103.4 - 105.2	离岸价
尼龙6	工程塑料树脂,原生,新客户	130.0 - 134.0	127.0 - 132.0	125.0 - 130.0	120.0 - 130.0	完税后交货
尼龙66	长丝					
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货
	短纤					
	15-19旦 (非品牌)	185 - 190	185 - 190	185 - 190	184 - 190	完税后交货
	工程塑料树脂,原生,新客户	140.0 - 145.0	140.0 - 145.0	137.0 - 142.0	137.0 - 142.0	完税后交货

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨	美元/吨
纯苯	合同 (西北欧送到)	946	977	926	848	离岸价
	现货 ARA	971	935	852	962	含保险到岸
苯酚	散货合同	1437 - 1477	1468 - 1508	1417 - 1457	1339 - 1379	完税后交货
	国内现货	1168 - 1218	1193 - 1253	1148 - 1198	1025 - 1097	完税后交货
环己烷	合同 (西北欧送到)	1097	1128	1077	999	出厂价
己二酸	新合同	1680 - 1720	1680 - 1720	1650 - 1700	1610 - 1650	完税后交货
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货
己内酰胺	新合同, 液体 (每月)	1835 - 1900 ‡	1850 - 1915	1820 - 1885	1770 - 1835	完税后交货
	出口 (固体)	1681 - 1718	1707 - 1744	1697 - 1718	1687 - 1717	离岸价
尼龙6	长丝					
	44分特 轴上 半光 (经编) ²	不详	不详	不详	不详	完税后交货
	工程塑料树脂,原生	1950 - 2050	1950 - 2050	1900 - 2050	1900 - 2050	完税后交货
尼龙66	长丝					
	22 分特 变形丝 (针织品) ²	6.50 - 6.60	6.40 - 6.50 ‡	6.35 - 6.45 ‡	6.30 - 6.40	完税后交货
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.50 - 4.60	4.40 - 4.50	完税后交货
	工程塑料树脂,原生	2300 - 2350	2280 - 2350	2250 - 2350	2250 - 2350	完税后交货

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
‡ = 校正

当天美元兑换率 (2013年11月25日)

欧元: 0.740 英镑: 0.619 (1/1.61) 日元: 101.7 新台币: 29.59 韩元: 1061.85 人民币: 6.09 卢比: 62.47

当天欧元兑换率 (2013年11月25日)

美元: 1.351 英镑: 0.836 (1/1.19) 日元: 137.4

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Surge in benzene prices props up caprolactam market at a time of weak demand
- European caprolactam producers' margins are squeezed further in December
- Mixed results for Asian adipic acid market in December, in two distinct tiers
- Polyamide BCF production and shipments remain strong in North America
- Polyamide filament producers in China rest on a cushion of low-priced stocks
- Year-end resin prices stabilise in Europe and North America at low levels

Caprolactam

Caprolactam producers in all regions might have faced the prospect of lower prices in December were it not for a surge in benzene prices. Year-end holidays in the West will be followed by Asian holidays at the end of January, all of which are expected to slow downstream operating rates and reduce demand for caprolactam. Contract prices in Asia are little changed from November, while spot prices are somewhat firmer. Many European contract partners are still negotiating December prices late in the month.

Nylon66 Intermediates

Sharp increases in US benzene prices in December are an unwelcome development for adipic acid producers, but some say that they retain advantages over other regions, especially regarding energy costs. All units are running hard. European December contracts are settling at an increase of around €40/ton in some cases, but lower prices have emerged. Buying interest in China is still unsatisfactory as average operating rates of downstream sole resin and PU coating plants remain at 40-50%.

Polyamide Polymer

The gentle downward trend in US polyamide 6 polymer prices has been arrested, possibly because any further erosion in margins would push more than one supplier to consider lower operating rates. In Europe, prices for polyamide 6 engineering resin in Europe are lower than most producers would like, but they appear to have stabilised. Chinese polyamide 6 polymer producers are running at 70-80% of capacity in December, but they are reluctant to concede price reductions.

Polyamide Fibre

The Chinese polyamide 6 filament market weakens driven by lower upstream costs whilst in Taiwan, confidence in the market falls because demand is not expected to improve in the short term. Polyamide BCF production and shipments remain strong in North America but the opposite is the case for textile filament yarn though shipments of industrial filament improve. Weakness is evident in West European hosiery markets a trend that has accelerated in December.

价格追踪

美国价

		2013年9月 美分/磅	2013年10月 美分/磅	2013年11月 美分/磅	2013年12月23日 美分/磅		2013年12月23日 美元/吨
纯苯	合同 °	440.0	437.0	410.0	448.5	离岸价	1342
	现货 °	440	405	450	497	离岸价	1488
苯酚	散货合同	84.6 - 88.6	84.2 - 88.2	80.5 - 84.5	85.7 - 89.7	完税后交货	1889 - 1978
	出口	65.0 - 72.5	不详	不详	不详	离岸价	不详
环己烷	合同货挂牌 °	405	402	380	412	离岸价	1393
	合同 交易 °	396 - 400	393 - 399	372 - 388	404 - 409	离岸价	1366 - 1382
己二酸	合同	95 - 105	90 - 100	90 - 100	90 - 100	完税后交货	1984 - 2205
己内酰胺	出口 (固体)	104.3 - 106.6	106.1 - 107.5	103.4 - 105.2	103.4 - 104.3	离岸价	2280 - 2300
尼龙6	工程塑料树脂,原生,新客户	127.0 - 132.0	125.0 - 130.0	120.0 - 130.0	120.0 - 130.0	完税后交货	2646 - 2866
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	185 - 190	185 - 190	184 - 190	184 - 190	完税后交货	4056 - 4189
	工程塑料树脂,原生,新客户	140.0 - 145.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	977	926	848	957	离岸价	1307
	现货 ARA	935	852	962	1010	含保险到岸	1380
苯酚	散货合同	1468 - 1508	1417 - 1457	1339 - 1379	1448 - 1488	完税后交货	1978 - 2033
	国内现货	1193 - 1253	1148 - 1198	1071 - 1146	1158 - 1209	完税后交货	1582 - 1651
环己烷	合同 (西北欧送到)	1128	1077	999	1108	出厂价	1514
己二酸	新合同	1680 - 1720	1650 - 1700	1610 - 1650	1640 - 1670	完税后交货	2240 - 2281
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货	3005 - 3142
己内酰胺	新合同, 液体 (每月)	1850 - 1915	1820 - 1885	1770 - 1835	1800 - 1885 †	完税后交货	2459 - 2575
	出口 (固体)	1707 - 1744	1697 - 1718	1687 - 1717	1669 - 1684	离岸价	2280 - 2300
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	不详	不详	不详	4.40 - 4.60	完税后交货	6011 - 6284
	工程塑料树脂,原生	1950 - 2050	1900 - 2050	1900 - 2050	1900 - 2050	完税后交货	2596 - 2801
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.40 - 6.50 ‡	6.35 - 6.45 ‡	6.30 - 6.40	6.10 - 6.20	完税后交货	8333 - 8470
	22 分特 POY (针织品) ²	4.50 - 4.60	4.50 - 4.60	4.40 - 4.50	4.20 - 4.30	完税后交货	5738 - 5874
	工程塑料树脂,原生	2300 - 2350	2250 - 2350	2250 - 2350	2250 - 2350	完税后交货	3074 - 3210

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
† = 暂定 ‡ = 校正

当天美元兑换率 (2013年12月20日)

欧元: 0.732 英镑: 0.611 (1/1.63) 日元: 104.1 新台币: 29.93 韩元: 1061.20 人民币: 6.07 卢比: 62.14

当天欧元兑换率 (2013年12月20日)

美元: 1.366 英镑: 0.835 (1/1.19) 日元: 142.2

本报告所包含的信息皆来自可信的资料来源，
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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Caprolactam price increases in Asia reflect higher benzene costs in January
- North American sellers seek 10 c/lb price increases for polyamide 6 polymer
- Global demand for polyamide fibre remains weak and utilisation rates are low

Caprolactam & PA6 Polymer: World Balances & Imbalances
- a new survey ([click here](#))

Caprolactam

Prices for caprolactam have gone up a little bit in Asia, but the whole market has gone quiet as China begins its Spring Festival holiday. There has been no sign of resurgent demand for polyamide products since the beginning of the year. In Europe, price increases of €30-40/ton have been registered in January, around the same level as December increases. North American sellers have taken the unusual step of announcing caprolactam price increases, even though most prices there are determined by formula.

Nylon66 Intermediates

Demand for adipic acid in the North American polyurethane sector has been stronger than expected in January, but other non-nylon derivative markets are described as stable. European adipic acid prices rose by an average €30/ton in December on stronger benzene values. Japanese producers are also attempting to pass on benzene increases to customers. Chinese producers have increased prices, but margins were still considered to be unsatisfactory by some producers.

Polyamide Polymer

North American sellers are asking for price increases of 10 c/lb for polyamide 6 polymer. Higher benzene costs make it all sound reasonable, but polyamide customers see that gentler price increases can be negotiated. European prices for polyamide 6 polymer are on the way up, as are prices for polyamide in Asia. But benzene prices – the impetus for recent price rises – have become disconnected from end-market demand. There is plenty of polyamide 6 and polyamide 66 resin for those who want it.

Polyamide Fibre

The Chinese market continues to weaken while average utilisation rates for Taiwanese plants are 50-60%. Shipments of BCF between non-vertical producers and carpet mills in North America slowed during December, though deliveries of textile filament were generally in line with expectations and demand for industrial polyamide filament, particularly in air bag yarns, surged. Demand in West Europe from carpet and warp knit producers begins to recover, but the hosiery, circular knit and weaving markets remain weak.

价格追踪

美国价

		2013年10月 美分/磅	2013年11月 美分/磅	2013年12月 美分/磅	2014年1月28日 美分/磅		2014年1月28日 美元/吨
纯苯	合同 °	437.0	410.0	439.0	484.0	离岸价	1449
	现货 °	405	450	497	505	离岸价	1511
苯酚	散货合同	84.2 - 88.2	80.5 - 84.5	85.7 - 89.7	90.5 - 94.5	完税后交货	1995 - 2083
	出口	不详	不详	不详	不详	离岸价	不详
环己烷	合同货挂牌 °	402	380	412	441	离岸价	1491
	合同 交易 °	393 - 399	372 - 388	404 - 409	436 - 442	离岸价	1474 - 1494
己二酸	合同	90 - 100	90 - 100	90 - 100	90 - 100	完税后交货	1984 - 2205
己内酰胺	出口 (固体)	106.1 - 107.5	103.4 - 105.2	103.4 - 104.3	104.3 - 106.6	离岸价	2300 - 2350
尼龙6	工程塑料树脂,原生,新客户	125.0 - 130.0	120.0 - 130.0	120.0 - 130.0	125.0 - 135.0	完税后交货	2756 - 2976
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	185 - 190	184 - 190	184 - 190	184 - 190	完税后交货	4056 - 4189
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	926	848	957	994	离岸价	1360
	现货 ARA	852	962	1010	1075	含保险到岸	1470
苯酚	散货合同	1417 - 1457	1339 - 1379	1448 - 1488	1475 - 1515	完税后交货	2018 - 2073
	国内现货	1148 - 1198	1071 - 1146	1158 - 1209	1180 - 1225	完税后交货	1614 - 1676
环己烷	合同 (西北欧送到)	1077	999	1108	1150	出厂价	1573
己二酸	新合同	1650 - 1700	1610 - 1650	1640 - 1670	1660 - 1690	完税后交货	2271 - 2312
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300 †	完税后交货	3010 - 3146
己内酰胺	新合同, 液体 (每月)	1820 - 1885	1770 - 1835	1800 - 1875 ‡	1835 - 1905	完税后交货	2510 - 2606
	出口 (固体)	1697 - 1718	1687 - 1717	1669 - 1684	1681 - 1718	离岸价	2300 - 2350
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	不详	不详	4.40 - 4.60	4.40 - 4.60	完税后交货	6019 - 6293
	工程塑料树脂,原生	1900 - 2050	1900 - 2050	1900 - 2050	1950 - 2050	完税后交货	2668 - 2804
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.35 - 6.45 ‡	6.30 - 6.40	6.10 - 6.20	6.10 - 6.20	完税后交货	8345 - 8482
	22 分特 POY (针织品) ²	4.50 - 4.60	4.40 - 4.50	4.20 - 4.30	4.20 - 4.30	完税后交货	5746 - 5882
	工程塑料树脂,原生	2250 - 2350	2250 - 2350	2250 - 2350	2250 - 2350	完税后交货	3078 - 3215

关于完税后交货的详细解释请看注解

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
† = 暂定 ‡ = 校正

当天美元兑换率 (2014年1月27日)

欧元: 0.731 英镑: 0.603 (1/1.65) 日元: 102.4 新台币: 30.40 韩元: 1083.70 人民币: 6.05 卢比: 63.24

当天欧元兑换率 (2014年1月27日)

美元: 1.368 英镑: 0.825 (1/1.21) 日元: 140.1

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A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- No lift for Asian caprolactam prices after Spring Festival holidays
- Caprolactam sellers in Europe lose margin in February deals
- Benzene contract prices in North America shoot past \$5/gal
- North American auto sector boosts polyamide fibre and resin
- Hopes for a high season in polyamide textiles are low
- Higher Tampa ammonia price in March arrests a long decline

Caprolactam

High benzene prices are creating big problems for caprolactam producers in North America and Europe. Producers' margins narrowed in February, the third month in a row in which sellers have been unable to pass on the full amount of the increase in their costs. Asian caprolactam prices are essentially flat in a well-supplied market. No significant pick-up in downstream demand has been noted for polyamide products since the end of the Spring Festival.

Nylon66 Intermediates

Typical prices for US adipic acid have risen by at least 5 c/lb in recent weeks, and some prices will have risen by around 10 c/lb, if not in January then in steps over January and February. In Europe, adipic acid prices went up €20-30/ton in January, and by a further €20-25/ton in February. The Chinese adipic market has been seasonally quiet, but prices were slightly firmer.

Polyamide Polymer

Prices for polyamide 6 polymer in North America are rising more or less in line with price increase announcements from major producers. In Europe, despite continued upward pressure on feedstocks, sellers are finding it difficult to pass increased costs downstream. Polyamide 6 producers in Taiwan and Japan are attempting to raise export prices to reflect higher feedstock costs, but markets have been generally slow to resume following the Lunar New Year holiday.

Polyamide Fibre

Demand for polyamide 6 filament was weak in China during the first week after the Spring Festival holidays as buyers waited to see how the market developed. In Taiwan, where the market was firmer, small price increases were more the result of cost pressures than strengthening demand. Shipments of BCF, textile filament and industrial filament to the North American market all improved during January from the low levels of the previous month, and deliveries to the West European market also increased overall.

价格追踪

美国价

		2013年11月 美分/磅	2013年12月 美分/磅	2014年1月 美分/磅	2014年2月26日 美分/磅		2014年2月26日 美元/吨
纯苯	合同 °	410.0	439.0	484.0	509.0	离岸价	1523
	现货 °	450	497	483	500	离岸价	1497
苯酚	散货合同	80.5 - 84.5	85.7 - 89.7	90.5 - 94.5	93.9 - 97.9	完税后交货	2070 - 2158
	出口	不详	不详	不详	不详	离岸价	不详
环己烷	合同货挂牌 °	380	412	441	462	离岸价	1562
	合同 交易 °	372 - 388	404 - 409	436 - 442	459 - 468	离岸价	1551 - 1582
己二酸	合同	90 - 100	90 - 100	90 - 100	95 - 105	完税后交货	2094 - 2315
己内酰胺	出口 (固体)	103.4 - 105.2	103.4 - 104.3	104.3 - 106.6	103.2 - 105.5	离岸价	2275 - 2325
尼龙6	工程塑料树脂,原生,新客户	120.0 - 130.0	120.0 - 130.0	125.0 - 135.0	130.0 - 135.0	完税后交货	2866 - 2976
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	184 - 190	184 - 190	184 - 190	188 - 193	完税后交货	4145 - 4255
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	848	957	994	1055	离岸价	1449
	现货 ARA	962	1010	1060	1019 - 1026	含保险到岸	1400 - 1410
苯酚	散货合同	1339 - 1379	1448 - 1488	1475 - 1515	1536 - 1576	完税后交货	2110 - 2165
	国内现货	1071 - 1146	1158 - 1209	1180 - 1225	1228 - 1268	完税后交货	1687 - 1742
环己烷	合同 (西北欧送到)	999	1108	1150	1211	出厂价	1663
己二酸	新合同	1610 - 1650	1640 - 1670	1660 - 1690	1690 - 1710	完税后交货	2321 - 2349
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货	3022 - 3159
己内酰胺	新合同, 液体 (每月)	1770 - 1835	1800 - 1875 ‡	1835 - 1905	1885 - 1955	完税后交货	2589 - 2685
	出口 (固体)	1687 - 1717	1669 - 1684	1681 - 1718	1656 - 1693	离岸价	2275 - 2325
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	不详	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	完税后交货	6044 - 6319
	工程塑料树脂,原生	1900 - 2050	1900 - 2050	1950 - 2050	2000 - 2050	完税后交货	2747 - 2816
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.30 - 6.40	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	完税后交货	8379 - 8516
	22 分特 POY (针织品) ²	4.40 - 4.50	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	完税后交货	5769 - 5907
	工程塑料树脂,原生	2250 - 2350	2250 - 2350	2250 - 2350	2250 - 2350	完税后交货	3091 - 3228

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克

‡ = 校正

当天美元兑换率 (2014年2月25日)

欧元: 0.728 英镑: 0.599 (1/1.66) 日元: 102.2 新台币: 30.34 韩元: 1072.85 人民币: 6.13 卢比: 61.99

当天欧元兑换率 (2014年2月25日)

美元: 1.374 英镑: 0.823 (1/1.21) 日元: 140.4

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Intense competition in polyamide enters a cruel phase
- Spot prices for caprolactam plunge in Asia
- European caprolactam sellers mostly get a rollover in March
- A further 100 ktpa of caprolactam capacity is set to come on stream in China
- Benzene prices go down a bit, but ammonia soars
- Japanese demand may come to an abrupt halt in April

Caprolactam

Prices for caprolactam in Asia have not been lower since 2009. Spot and contract prices afford little return. Around 100 ktpa of new capacity is expected on stream in China in the second quarter. March contract prices for caprolactam in Europe are mostly unchanged from February. Integrated North American producers are running polymerisation units harder than before.

Nylon66 Intermediates

US adipic acid prices in March are higher as benzene price increases earlier in the year are taken into account. In Europe, despite a reversal in the direction of benzene prices in March, sellers are pressing for higher prices. The Japanese domestic market is steady, whilst, in China, major producers are taking a firm stance on March prices in an attempt to restore some margins ahead of the traditional PU high season.

Polyamide Fibre

Polyamide 6 filament markets in both China and Taiwan softened during February and raw material costs fell. Deliveries of polyamide BCF to the North American market were stable as strong demand in commercial and automotive markets compensated for modest declines in the weather-affected residential sectors. Deliveries of textile and industrial filament slowed. Demand in West Europe is generally weak, though the BCF market is performing better than other sectors.

Polyamide Polymer

Polyamide 6 polymer producers in North America have been trying to implement price increases of 8-10 c/lb in the first quarter, and were mostly successful in January and February. In Europe, the tentative upward trend in prices for polyamide 6 engineering resin in January and February has accelerated in March. Demand appears strong in March, April orders are robust for the time being.

价格追踪

美国价

		2013年12月 美分/磅	2014年1月 美分/磅	2014年2月 美分/磅	2014年3月27日 美分/磅		2014年3月27日 美元/吨
纯苯	合同 °	439.0	484.0	509.0	495.0	离岸价	1482
	现货 °	497	483	500	470	离岸价	1407
苯酚	散货合同	85.7 - 89.7	90.5 - 94.5	93.9 - 97.9	92.0 - 96.0	完税后交货	2028 - 2116
	出口	不详	不详	不详	不详	离岸价	不详
环己烷	合同货挂牌 °	412	441	462	450	离岸价	1521
	合同 交易 °	404 - 409	436 - 442	459 - 468	447 - 461	离岸价	1511 - 1558
己二酸	合同	90 - 100	90 - 100	95 - 105	100 - 105	完税后交货	2205 - 2315
己内酰胺	出口 (固体)	103.4 - 104.3	104.3 - 106.6	103.2 - 105.5	99.8 - 102.1	离岸价	2200 - 2250
尼龙6	工程塑料树脂,原生,新客户	120.0 - 130.0	125.0 - 135.0	130.0 - 135.0	130.0 - 135.0	完税后交货	2866 - 2976
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	184 - 190	184 - 190	188 - 193	188 - 193	完税后交货	4145 - 4255
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	957	994	1055	1003	离岸价	1383
	现货 ARA	1010	1060	1012 - 1026	1008 - 1015	含保险到岸	1390 - 1400
苯酚	散货合同	1448 - 1488	1475 - 1515	1536 - 1576	1484 - 1524	完税后交货	2047 - 2102
	国内现货	1158 - 1209	1180 - 1225	1228 - 1268	1178 - 1198	完税后交货	1625 - 1653
环己烷	合同 (西北欧送到)	1108	1150	1211	1159	出厂价	1599
己二酸	新合同	1640 - 1670	1660 - 1690	1690 - 1710	1700 - 1740	完税后交货	2345 - 2400
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货	3034 - 3172
己内酰胺	新合同, 液体 (每月)	1800 - 1875 ‡	1835 - 1905	1885 - 1955	1885 - 1955 †	完税后交货	2600 - 2697
	出口 (固体)	1669 - 1684	1681 - 1718	1656 - 1693	1595 - 1631	离岸价	2200 - 2250
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	完税后交货	6069 - 6345
	工程塑料树脂,原生	1900 - 2050	1950 - 2050	2000 - 2050	2050 - 2100	完税后交货	2828 - 2897
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	完税后交货	8414 - 8552
	22 分特 POY (针织品) ²	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	完税后交货	5793 - 5931
	工程塑料树脂,原生	2250 - 2350	2250 - 2350	2250 - 2350	2300 - 2350	完税后交货	3172 - 3241

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克

† = 暂定 ‡ = 校正

当天美元兑换率 (2014年3月26日)

欧元: 0.725 英镑: 0.604 (1/1.65) 日元: 102.3 新台币: 30.54 韩元: 1074.95 人民币: 6.20 卢比: 60.13

当天欧元兑换率 (2014年3月26日)

美元: 1.379 英镑: 0.833 (1/1.20) 日元: 141.1

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
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- Caprolactam contract prices in Asia hit their lowest since the end of 2009
- North American caprolactam plants run hard despite unattractive export prices
- European shutdown season starts in Europe, so caprolactam is finely balanced
- Weak demand for polyamide fibre in China pulls down prices
- Benzene prices rise in China and Europe, but are lower in North America
- Adiponitrile settlement between Invista and Solvay covers new China offtake

Caprolactam

A very modest rally in caprolactam spot prices in Asia has taken them higher than \$2200/ton cfr, but no strong upward trend is in evidence. Asian contract prices for April are lower than they have been since the end of 2009. In Europe, April contract discussions mostly followed the lead of the benzene market, resulting in an increase of €16/ton at many accounts. Exporters from North America continue to run at high rates, even though export prices are increasingly unattractive.

Nylon66 Intermediates

US demand for adipic acid remains relatively strong, unchanged from the increased levels noted in the first quarter. In April, European benzene prices are higher by €16/ton but sellers of adipic acid are finding it difficult to pass on this higher cost to their customers. In China prices softened into the first half of April. Besides sluggish demand, lower adipic acid contract prices also weighed down spot market prices.

Polyamide Polymer

In North America, the market appeared tight for much of the first quarter, and this assisted sellers in their efforts to raise prices. The West European market for polyamide 6 engineering resin was much stronger in March than many were expecting and supply was tight by the end of the month. In Asia, demand for polyamide 6 polymer in Asia has been lacklustre since the Lunar New Year holidays. Prices for polyamide 6 have plummeted in China in line with falling caprolactam prices.

Polyamide Fibre

The price of polyamide 6 filament in China has fallen significantly, though in Taiwan a more stable situation is evident, but demand remains weak. In North America, demand for BCF remains strong in both the commercial and automotive flooring sectors, with a similar situation evident in industrial markets associated with the car industry. In Europe, deliveries of BCF remain above expectations, but demand in the textile sector is less strong.

价格追踪

美国价

		2014年1月 美分/磅	2014年2月 美分/磅	2014年3月 美分/磅	2014年4月30日 美分/磅		2014年4月30日 美元/吨
纯苯	合同 °	484.0	509.0	495.0	480.0	离岸价	1437
	现货 °	483	500	470	440	离岸价	1317
苯酚	散货合同	90.5 - 94.5	93.9 - 97.9	92.0 - 96.0	90.0 - 94.0	完税后交货	1984 - 2072
	出口	不详	不详	不详	不详	离岸价	不详
环己烷	合同货挂牌 °	441	462	450	438	离岸价	1480
	合同 交易 °	436 - 442	459 - 468	447 - 461	434 - 442	离岸价	1467 - 1494
己二酸	合同	90 - 100	95 - 105	100 - 105	100 - 105	完税后交货	2205 - 2315
己内酰胺	出口 (固体)	104.3 - 106.6	103.2 - 105.5	99.8 - 102.1	97.5 - 99.8	离岸价	2150 - 2200
尼龙6	工程塑料树脂,原生,新客户	125.0 - 135.0	130.0 - 135.0	130.0 - 135.0	128.0 - 135.0	完税后交货	2822 - 2976
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	184 - 190	188 - 193	188 - 193	188 - 193	完税后交货	4145 - 4255
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	994	1055	1003	1019	离岸价	1407
	现货 ARA	1060	1012 - 1026	1008 - 1015	1014 - 1050	含保险到岸	1400 - 1450
苯酚	散货合同	1475 - 1515	1536 - 1576	1484 - 1524	1500 - 1540	完税后交货	2072 - 2127
	国内现货	1180 - 1225	1228 - 1268	1178 - 1198	1252 - 1281	完税后交货	1729 - 1770
环己烷	合同 (西北欧送到)	1150	1211	1159	1178	出厂价	1627
己二酸	新合同	1660 - 1690	1690 - 1710	1700 - 1740	1700 - 1740	完税后交货	2348 - 2403
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货	3039 - 3177
己内酰胺	新合同, 液体 (每月)	1835 - 1905	1885 - 1955	1885 - 1955	1900 - 1970	完税后交货	2624 - 2721
	出口 (固体)	1681 - 1718	1656 - 1693	1595 - 1631	1557 - 1593	离岸价	2150 - 2200
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	完税后交货	6077 - 6354
	工程塑料树脂,原生	1950 - 2050	2000 - 2050	2050 - 2100	2050 - 2100	完税后交货	2831 - 2901
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	完税后交货	8425 - 8564
	22 分特 POY (针织品) ²	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	完税后交货	5801 - 5939
	工程塑料树脂,原生	2250 - 2350	2250 - 2350	2300 - 2350	2300 - 2350	完税后交货	3177 - 3246

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克

当天美元兑换率 (2014年4月29日)

欧元: 0.724 英镑: 0.594 (1/1.68) 日元: 102.6 新台币: 30.20 韩元: 1030.55 人民币: 6.26 卢比: 60.42

当天欧元兑换率 (2014年4月29日)

美元: 1.381 英镑: 0.820 (1/1.21) 日元: 141.7

本报告所包含的信息皆来自可信的资料来源, 但是对任何声称跟据本报告内容所做的商业决策, 英国泰可荣全球化学有限公司概不负责。

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

CONTACT: JAMES MILLS
Email: james.mills@orbichem.com

- Adiponitrile and HMDA markets develop in China; technology looks familiar
- Sumitomo Chemical to stop one of its two caprolactam units in Japan next year
- Cyclohexane shutdowns in Europe have little effect on downstream markets
- Grudging price increases are achieved in the Asian caprolactam market
- Polyamide tyre record market gets a boost from growing car sales in India
- US prices for polyamide 6 polymer start slipping in a well-supplied market

Caprolactam

Long negotiations have resulted in tiny increases in Asian caprolactam prices in the past few days. Chinese suppliers have flooded the domestic market with caprolactam at low prices, so international suppliers have been struggling to place high-quality material. One Japanese producer is making plans to step away from the market, and others are likely to follow.

Nylon66 Intermediates

A further reduction in North American benzene contract prices in May brings additional downward pressure on adipic acid prices. In Europe, May contract price negotiations have been settling with increases of €5-10/ton in some cases, but the biggest buyers have achieved rollovers. Higher benzene costs drove price increases in the Chinese market in May. The market remains oversupplied, with demand subdued.

Polyamide Polymer

Prices for polyamide 6 polymer in North America have slipped from April levels. Polyamide 66 polymer continues to command a price premium of at least 5 c/lb and sometimes 10 c/lb over polyamide 6 resin. In Europe, price ideas are pointed lower, especially at the low end of the market. In Asia, Japanese exporters of polyamide 6 polymer have raised May prices.

Polyamide Fibre

The average utilisation rate of polyamide 6 filament producers in China remained around 70-75% in May, whilst in Taiwan, most producers maintained operating rates of around 75-80%, though some expect a slowdown in the coming months. Shipments of BCF in North America increased during the month whilst demand for textile filament was stable but mixed conditions were evident in industrial markets. Demand for BCF in West Europe is good also, but deliveries of textile filament are described as lacklustre.

价格追踪

美国价

		2014年2月 美分/磅	2014年3月 美分/磅	2014年4月 美分/磅	2014年5月29日 美分/磅		2014年5月29日 美元/吨
纯苯	合同 °	509.0	495.0	480.0	457.0	离岸价	1368
	现货 °	500	470	440	441 - 445	离岸价	1320 - 1332
苯酚	散货合同	93.9 - 97.9	92.0 - 96.0	90.0 - 94.0	86.8 - 90.8	完税后交货	1914 - 2002
	出口	63.0	60.0 ‡	60.0 ‡	60.0	离岸价	1323
环己烷	合同货挂牌 °	462	450	438	419	离岸价	1416
	合同 交易 °	459 - 468	447 - 461	434 - 442	416 - 422	离岸价	1406 - 1426
己二酸	合同	95 - 105	100 - 105	100 - 105	95 - 105	完税后交货	2094 - 2315
己内酰胺	出口 (固体)	103.2 - 105.5	99.8 - 102.1	97.5 - 99.8	97.5 - 99.8	离岸价	2150 - 2200
尼龙6	工程塑料树脂,原生,新客户	130.0 - 135.0	130.0 - 135.0	128.0 - 135.0	125.0 - 130.0	完税后交货	2756 - 2866
尼龙66	长丝						
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货	6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货	5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货	5137 - 5512
	短纤						
	15-19旦 (非品牌)	188 - 193	188 - 193	188 - 193	不详	完税后交货	不详
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	完税后交货	3020 - 3131

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨		美元/吨
纯苯	合同 (西北欧送到)	1055	1003	1019	1048	离岸价	1426
	现货 ARA	1012 - 1026	1008 - 1015	1014 - 1050	992	含保险到岸	1350
苯酚	散货合同	1536 - 1576	1484 - 1524	1500 - 1540	1529 - 1569	完税后交货	2080 - 2135
	国内现货	1228 - 1268	1178 - 1198	1252 - 1281	1305 - 1355	完税后交货	1776 - 1844
环己烷	合同 (西北欧送到)	1211	1159	1178	1207	出厂价	1642
己二酸	新合同	1690 - 1710	1700 - 1740	1700 - 1740	1720 - 1740	完税后交货	2340 - 2367
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货	2993 - 3129
己内酰胺	新合同, 液体 (每月)	1885 - 1955	1885 - 1955	1900 - 1970	1915 - 1985	完税后交货	2605 - 2701
	出口 (固体)	1656 - 1693	1595 - 1631	1557 - 1593	1580 - 1617	离岸价	2150 - 2200
尼龙6	长丝						
	44分特 轴上 半光 (经编) ²	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	完税后交货	5986 - 6259
	工程塑料树脂,原生	2000 - 2050	2050 - 2100	2050 - 2100	2050 - 2100	完税后交货	2789 - 2857
尼龙66	长丝						
	22 分特 变形丝 (针织品) ²	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	完税后交货	8299 - 8435
	22 分特 POY (针织品) ²	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	完税后交货	5714 - 5850
	工程塑料树脂,原生	2250 - 2350	2300 - 2350	2300 - 2350	2250 - 2350	完税后交货	3061 - 3197

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克
‡ = 校正

当天美元兑换率 (2014年5月28日)

欧元: 0.735 英镑: 0.599 (1/1.66) 日元: 101.8 新台币: 30.09 韩元: 1021.35 人民币: 6.26 卢比: 58.88

当天欧元兑换率 (2014年5月28日)

美元: 1.361 英镑: 0.815 (1/1.22) 日元: 138.5

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CHEMICAL BUSINESS FOCUS

A MONTHLY ROUNDUP AND ANALYSIS OF THE
KEY FACTORS SHAPING WORLD CHEMICAL MARKETS

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Email: james.mills@orbichem.com

- Asian caprolactam prices in June are a mix of minor ups and downs
- Benzene spot prices take a sharp upward turn in all main markets
- Saudi Arabian restart promises relief from cyclohexane tightness
- Phenol capacity in China to swell by 675 ktpa in the next few months
- Chinese adipic acid exporters raise prices by \$100/ton on higher benzene
- Ammonia prices in Tampa fall again despite tensions in global market

Caprolactam

Prices for caprolactam in Asia are mixed in June, but changes from the previous month are very modest. Spot prices have decreased slightly in both mainland China and Taiwan, and contract prices have either rolled over or have increased slightly. In Europe, caprolactam buyers and sellers have split the benefit of lower benzene prices in June. Exports from North America were 11% lower in the first quarter and may decline further as new Chinese capacity comes on stream.

Nylon66 Intermediates

A further 9 c/gal drop in benzene contract prices in the US in June will be factored into contract prices for adipic acid from next month. In June, European customers have mostly won back whatever increase they accepted in May. The Chinese adipic acid market was firm in May and the rising trend remains in place in June. Spot adipic acid prices in China have increased in June after reaching loss-making lows in May.

Polyamide Polymer

Polyamide 6 polymer prices have been in gentle decline in the US since March and the downward trend appears to have accelerated. The European market for polyamide 6 polymer for engineering resins was unchanged in April and May, but underlying trends point to a slight erosion in prices in June. Taiwan polyamide prices have slipped but Chinese producers are pushing for higher prices to restore margins.

Polyamide Fibre

Markets in both China and Taiwan continued to weaken in May and early June, despite price cutting. Deliveries of BCF to the North American market improved steadily throughout May and though demand for textile filament remains weak, the markets for industrial filament were strong in most applications. Demand for BCF in West Europe held up well against an anticipated seasonal decline while the market for knitted apparel began to expand. Specialty items remained in demand in the weaving sector.

价格追踪

美国价

		2014年3月 美分/磅	2014年4月 美分/磅	2014年5月 美分/磅	2014年6月25日 美分/磅	2014年6月25日 美元/吨
纯苯	合同 °	495.0	480.0	457.0	448.0	离岸价 1341
	现货 °	470	440	441 - 445	482	离岸价 1443
苯酚	散货合同	92.0 - 96.0	90.0 - 94.0	86.8 - 90.8	85.6 - 89.6	完税后交货 1887 - 1975
	出口	60.0	60.0	60.0	52.5 - 62.0	离岸价 1157 - 1367
环己烷	合同货挂牌 °	450	438	419	411	离岸价 1389
	合同 交易 °	447 - 461	434 - 442	416 - 422	407 - 414	离岸价 1376 - 1399
己二酸	合同	100 - 105	100 - 105	95 - 105	95 - 100	完税后交货 2094 - 2205
己内酰胺	出口 (固体)	99.8 - 102.1	97.5 - 99.8	97.5 - 99.8	97.5 - 99.8	离岸价 2150 - 2200
尼龙6	工程塑料树脂,原生,新客户	130.0 - 135.0	128.0 - 135.0	125.0 - 135.0	122.0 - 128.0	完税后交货 2690 - 2822
尼龙66	长丝					
	40旦 POY	288 - 292	288 - 292	288 - 292	288 - 292	完税后交货 6349 - 6437
	70/34 旦 POY	238 - 245	238 - 245	238 - 245	238 - 245	完税后交货 5247 - 5401
	地毯丝 1100旦 (品牌)	233 - 250	233 - 250	233 - 250	233 - 250	完税后交货 5137 - 5512
	短纤					
	15-19旦 (非品牌)	188 - 193	188 - 193	不详	不详	完税后交货 不详
	工程塑料树脂,原生,新客户	137.0 - 142.0	137.0 - 142.0	137.0 - 142.0	135.0 - 140.0	完税后交货 2976 - 3086

西欧价

		欧元/吨	欧元/吨	欧元/吨	欧元/吨	美元/吨
纯苯	合同 (西北欧送到)	1003	1019	1048	977	离岸价 1329
	现货 ARA	1008 - 1015	1014 - 1050	992	1051 - 1066	含保险到岸 1430 - 1450
苯酚	散货合同	1484 - 1524	1500 - 1540	1529 - 1569	1458 - 1498	完税后交货 1984 - 2038
	国内现货	1178 - 1198	1252 - 1281	1305 - 1355	1108 - 1136	完税后交货 1507 - 1545
环己烷	合同 (西北欧送到)	1159	1178	1207	1136	出厂价 1546
己二酸	新合同	1700 - 1740	1700 - 1740	1720 - 1740	1680 - 1720	完税后交货 2286 - 2340
尼龙66盐	合同 (新客户) ¹	2200 - 2300	2200 - 2300	2200 - 2300	2200 - 2300	完税后交货 2993 - 3129
己内酰胺	新合同, 液体 (每月)	1885 - 1955	1900 - 1970	1915 - 1985	1880 - 1950	完税后交货 2558 - 2653
	出口 (固体)	1595 - 1631	1557 - 1593	1580 - 1617	1580 - 1617	离岸价 2150 - 2200
尼龙6	长丝					
	44分特 轴上 半光 (经编) ²	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	4.40 - 4.60	完税后交货 5986 - 6259
	工程塑料树脂,原生	2050 - 2100	2050 - 2100	2050 - 2100	2050 - 2100	完税后交货 2789 - 2857
尼龙66	长丝					
	22 分特 变形丝 (针织品) ²	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	6.10 - 6.20	完税后交货 8299 - 8435
	22 分特 POY (针织品) ²	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	4.20 - 4.30	完税后交货 5714 - 5850
	工程塑料树脂,原生	2300 - 2350	2300 - 2350	2250 - 2350	2250 - 2350	完税后交货 3061 - 3197

° = 美分/加仑 ¹ = 客户(用量为几百吨/年) ² = 欧元/千克

当天美元兑换率 (2014年6月24日)

欧元: 0.735 英镑: 0.589 (1/1.69) 日元: 102.1 新台币: 29.99 韩元: 1018.45 人民币: 6.23 卢比: 60.10

当天欧元兑换率 (2014年6月24日)

美元: 1.361 英镑: 0.801 (1/1.24) 日元: 138.9

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附件 IV-7

MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Prices for many key PA raw materials (benzene, ammonia, butadiene, sulphur) continue to fall, easing some margin pressure.
- Despite some operational problems, Chinese domestic CPL output continues to increase, squeezing out exports.
- A further 500ktes/yr of new CPL capacity prepares for start-up in China.

NEWS NYLON FIBRES 尼龙纤维新闻

- In a difficult market, nylon textile filament prices in Asia have generally held steady this month in spite of efforts to increase them. Nylon industrial filament yarn prices have eased a little, but tyre cord prices appear to have strengthened.
- In North America nylon BCF demand has improved, but not to the extent hoped for. The high tenacity sector remains split between the highly successful airbag business and most other applications which remain weak. The textile filament sector has been buoyant enough to introduce some price increases, following earlier moves at the polymer level.
- Most nylon markets in Europe are now slowing as the summer holidays approach, with textile filament volumes reducing steadily. The heavy denier industrial filament market remains under considerable price and volume pressure, while the BCF market is still struggling.

UPCOMING EVENTS 近期动向

- PCI Fibres Conference 2013, Hong Kong, 7-8 November 2013
Further information: www.pcifibres.com/hkconference.html
- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	May-13	Jun-13	Jul-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2350-2350	2355-2370	N/F
	Import Taiwan	Spot CFR	US\$/mt	2220-2300	2300-2320	2270-2300
	Import China	Contract CFR	US\$/mt	2350-2350	2370-2380	N/F
	Import China	Spot CFR	US\$/mt	2250-2300	2330-2360	2320-2360
	Domestic China	Spot CFR	RMB/mt	17400-17700	17800-18300	17900-18400
PA6 Polymer	Fibre (std)	Spot CFR	US\$/mt	2660-2700	2660-2700	2660-2700
	Fibre (diff)	Spot CFR	US\$/mt	2730-2770	2730-2770	2730-2770
	EP grade	Spot CFR	US\$/mt	2660-2700	2660-2700	2660-2700
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2850-3000
	Fibre (diff)差异化	Spot CFR	US\$/mt	2850-3050	2850-3200	2850-3200
	EP grade复合型	Spot CFR	US\$/mt	2850-3100	2850-3150	2850-3150
China Source Polymers	PA6 Fibre (std)	Spot CFR	RMB/mt	18700-19200	19200-20000	18600-19800
	PA6 Fibre (diff)	Spot CFR	RMB/mt	19200-20100	20000-21100	20100-21100
	PA66	Spot CFR	RMB/mt	22000-22800	22200-23000	22000-22500
Adipic Acid		Contract CFR	US\$/mt	1850-1900	1800-1850	1800-1850
	TPU Grade	Spot CFR	US\$/mt	1850-1900	1800-1850	1800-1850
	Standard Grade	Spot CFR	US\$/mt	1600-1650	1600-1650	1550-1650
		Spot CFR	RMB/mt	11200-12500	10500-12300	10200-12000

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	100	99	93
			US\$/mt	2210	2180	2060
	Flake Export	FOB	c/lb	97	100	101
			US\$/mt	2145	2215	2225
PA6 Polymer	Fibre (std)	CFR	US\$/mt	2755-2820	2755-2820	2755-2800
	Fibre (diff)	CFR	US\$/mt	3055-3255	3055-3255	3055-3255
	EP grade	CFR	US\$/mt	2865-2975	2865-2975	2865-2975
PA66 Polymer	Fibre (std)	CFR	US\$/mt	2850-3175	2800-3200	2680-3135
	Fibre (diff)	CFR	US\$/mt	3050-3250	3000-3275	2880-3210
	EP grade	CFR	US\$/mt	3150-3200	3150-3200	3150-3200
Adipic Acid	Domestic	Contract CFR	US\$/mt	2205-2350	2315-2425	2160-2315
	Export	FOB	US\$/mt	1775-1825	1725-1775	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1646-1694	1638-1686	NF-NF
			US\$/mt	2137-2200	2158-2222	NF-NF
	Domestic Medium	Contract DEL	€/mt	1871-2009	1863-2001	NF-NF
			US\$/mt	2430-2609	2455-2637	NF-NF
	Flake Export	FOB	€/mt	1656-1694	1692-1715	1717-1748
			US\$/mt	2150-2200	2230-2260	2220-2260
PA6 Polymer	Fibre (std)	Contract DEL	€/mt	2080-2140	2080-2120	2050-2120
			US\$/mt	2701-2779	2741-2794	2650-2741
	Fibre (diff)	Contract DEL	€/mt	2200-2270	2200-2250	2200-2250
			US\$/mt	2857-2948	2899-2965	2844-2909
	EP grade	Contract DEL	€/mt	2030-2100	2030-2075	2000-2050
			US\$/mt	2636-2727	2675-2734	2586-2650
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Contract DEL	€/mt	2600-2800	2600-2800	2600-2800
			US\$/mt	3376-3636	3426-3690	3361-3620
	Fibre (diff)差异化	Contract DEL	€/mt	2700-2900	2700-2900	2700-2900
			US\$/mt	3506-3766	3558-3821	3491-3749
	EP grade复合型	Contract DEL	€/mt	2400-2550	2450-2550	2425-2550
			US\$/mt	3116-3311	3228-3360	3135-3297
Adipic Acid	Domestic	Contract DEL	€/mt	1540-1620	1540-1620	1555-1620
	Export	FOB	US\$/mt	1750-1800	1700-1750	1700-1750

* - provisional † - revised

\$ per € Rate =

1.299

1.318

1.293

RMB per \$ Rate =

6.193

6.173

6.177

August 2013

No 285

22.08.2013



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Butadiene prices go into free-fall, dropping -25% in Europe and -39% in the USA. However, it looks like August is the bottom.
- Ammonia prices fall by double-digit percentages making August the 9th consecutive month of price drops.
- BASF declare Force Majeure in PA66 polymer.

NEWS NYLON FIBRES 尼龙纤维新闻

- Nylon filament prices in Asia have generally held steady this month. With the seasonal upturn still awaited, all sectors are hoping that a new round of monetary easing in China will lift activity.
- In North America the textile filament market has accepted price increases. In heavy denier industrial filament, tyre demand is consistent with last year, but non-tyre applications are weak, in contrast to the airbag business. There are some small indications that the housing market might not be as buoyant as first hoped, although nylon BCF output in the USA was up +2.8% at six months.
- It is the European holiday season, which means that textile filament activity is much reduced. The BCF business is also quiet, but there are small indications of improvement for the autumn. The high tenacity industrial market remains polarised between heavy deniers where prices are very depressed, and lighter deniers where there is some stability.

UPCOMING EVENTS 近期动向

- PCI Fibres Conference 2013, Hong Kong, 7-8 November 2013
- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Jun-13	Jul-13	Aug-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2355-2370	2320-2360	2320-2340
	Import Taiwan	Spot CFR	US\$/mt	2300-2320	2270-2300	2280-2300
	Import China	Contract CFR	US\$/mt	2370-2380	2360-2360	2340-2350
	Import China	Spot CFR	US\$/mt	2330-2360	2320-2360	2280-2350
	Domestic China	Spot CFR	RMB/mt	17800-18300	17900-18400	17700-18400
PA6 Polymer	Fibre (std)	Spot CFR	US\$/mt	2660-2700	2660-2700	2620-2670
	Fibre (diff)	Spot CFR	US\$/mt	2730-2770	2730-2770	2690-2740
	EP grade	Spot CFR	US\$/mt	2660-2700	2660-2700	2620-2670
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2850-3000
	Fibre (diff)差别化	Spot CFR	US\$/mt	2850-3200	2850-3200	2850-3200
	EP grade复合型	Spot CFR	US\$/mt	2850-3150	2850-3150	2850-3150
China Source Polymers	PA6 Fibre (std)	Spot CFR	RMB/mt	19200-20000	18600-19800	18700-19500
	PA6 Fibre (diff)	Spot CFR	RMB/mt	20000-21100	20100-21100	19700-20700
	PA66	Spot CFR	RMB/mt	22200-23000	22000-22500	22000-22500
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	1780-1800
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1800-1850	1770-1800
	Standard Grade	Spot CFR	US\$/mt	1600-1650	1550-1650	1550-1600
		Spot CFR	RMB/mt	10500-12300	†10200-12300	10300-12900

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	99	93	94
			US\$/mt	2180	2060	2070
	Flake Export	FOB	c/lb	100	101	99
			US\$/mt	2215	2225	2185
PA6 Polymer	Fibre (std)	CFR	US\$/mt	2755-2820	2755-2800	2710-2800
	Fibre (diff)	CFR	US\$/mt	3055-3255	3055-3255	3010-3225
	EP grade	CFR	US\$/mt	2865-2975	2865-2975	2800-2866
PA66 Polymer	Fibre (std)	CFR	US\$/mt	2800-3200	2680-3135	2495-3160
	Fibre (diff)	CFR	US\$/mt	3000-3275	2880-3210	2695-3235
	EP grade	CFR	US\$/mt	3150-3200	3150-3200	2975-3085
Adipic Acid	Domestic	Contract CFR	US\$/mt	2315-2425	2160-2315	2161-2315
	Export	FOB	US\$/mt	1725-1775	1725-1775	1695-1725

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1638-1686	1603-1651	NF
			US\$/mt	2158-2222	2096-2159	NF
	Domestic Medium	Contract DEL	€/mt	1863-2001	1828-1966	NF
			US\$/mt	2455-2637	2390-2571	NF
	Flake Export	FOB	€/mt	1692-1715	1698-1728	1640-1692
			US\$/mt	2230-2260	2220-2260	2180-2250
PA6 Polymer	Fibre (std)	Contract DEL	€/mt	2080-2120	2050-2120	2050-2120
			US\$/mt	2741-2794	2680-2772	2726-2819
	Fibre (diff)	Contract DEL	€/mt	2200-2250	2200-2250	2200-2250
			US\$/mt	2899-2965	2877-2942	2925-2992
	EP grade	Contract DEL	€/mt	2030-2075	2000-2050	2000-2050
			US\$/mt	2675-2734	2615-2680	2659-2726
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Contract DEL	€/mt	2600-2800	2600-2800	2600-2800
			US\$/mt	3426-3690	3400-3661	3457-3723
	Fibre (diff)差异化	Contract DEL	€/mt	2700-2900	2700-2900	2700-2900
			US\$/mt	3558-3821	3530-3792	3590-3856
	EP grade复合型	Contract DEL	€/mt	2450-2550	2425-2550	2425-2550
			US\$/mt	3228-3360	3171-3334	3224-3391
Adipic Acid	Domestic	Contract DEL	€/mt	1540-1620	1555-1620	1550-1615
	Export	FOB	US\$/mt	1700-1750	1700-1750	1670-1700

† - revised

\$ per € Rate =

1.318

1.308

1.330

RMB per \$ Rate =

6.173

6.174

6.164

MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Key raw material prices stabilise in September as producers cut output to prevent further declines.
- Caprolactam prices in Asia move marginally higher, but further progress appears to be capped.
- Shenma to invest in CPL & PA6 polymer.
- Invista considers backward integration into ammonia and hydrogen at Victoria, TX.

NEWS NYLON FIBRES 尼龙纤维新闻

- Nylon textile filament prices in Asia have generally remained steady, but with some softening in China. By contrast Chinese nylon industrial filament prices have responded to higher raw material costs, even though the tyre market is soft.
- In North America nylon filament prices across all categories are unchanged this month, although demand is generally a little weaker.
- Europe has now returned from the holidays and this has given a small boost to volumes, but the BCF business is still very slow.

UPCOMING EVENTS 近期动向

- PCI Fibres Conference 2013, Hong Kong, 7-8 November 2013, organised by PCI Fibres, www.pcifibres.com
- The Acrylonitrile & Derivatives Conference 2013, Hong Kong, 7-8 November 2013, organised by PCI Acrylonitrile, www.pci-acrylo.com
- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Jul-13	Aug-13	Sep-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2320-2360	2320-2340	2370-2395
	Import Taiwan	Spot CFR	US\$/mt	2270-2300	2280-2300	2340-2380
	Import China	Contract CFR	US\$/mt	2360-2360	2340-2350	2390-2400
	Import China	Spot CFR	US\$/mt	2320-2360	2280-2350	2340-2380
	Domestic China	Spot CFR	RMB/mt	17900-18400	17700-18400	18400-18600
PA6 Polymer	Fibre (std)	Spot CFR	US\$/mt	2660-2700	2620-2670	2630-2660
	Fibre (diff)	Spot CFR	US\$/mt	2730-2770	2690-2740	2700-2730
	EP grade	Spot CFR	US\$/mt	2660-2700	2620-2670	2630-2670
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2850-3000
	Fibre (diff)差别化	Spot CFR	US\$/mt	2850-3200	2850-3200	2900-3200
	EP grade复合型	Spot CFR	US\$/mt	2850-3150	2850-3150	2850-3150
China Source Polymers	PA6 Fibre (std)	Spot CFR	RMB/mt	18600-19800	18700-19500	19000-19700
	PA6 Fibre (diff)	Spot CFR	RMB/mt	20100-21100	19700-20700	20100-20900
	PA66	Spot CFR	RMB/mt	22000-22500	22000-22500	22500-23000
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1780-1800	1800-1850
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1770-1800	1800-1850
	Standard Grade	Spot CFR	US\$/mt	1550-1650	1550-1600	1600-1680
		Spot CFR	RMB/mt	10200-12300	10300-12900	11000-13000

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	93	94	98
			US\$/mt	2060	2070	2160
	Flake Export	FOB	c/lb	101	99	101
			US\$/mt	2225	2185	2230
PA6 Polymer	Fibre (std)	CFR	US\$/mt	2755-2800	2710-2800	2620-2755
	Fibre (diff)	CFR	US\$/mt	3055-3255	3010-3225	2920-3180
	EP grade	CFR	US\$/mt	2865-2975	2800-2866	2755-2820
PA66 Polymer	Fibre (std)	CFR	US\$/mt	2680-3135	2495-3160	2540-3215
	Fibre (diff)	CFR	US\$/mt	2880-3210	2695-3235	2740-3290
	EP grade	CFR	US\$/mt	3150-3200	2975-3085	2975-3085
Adipic Acid	Domestic	Contract CFR	US\$/mt	2160-2315	2160-2315	2180-2335
	Export	FOB	US\$/mt	1725-1775	1695-1725	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1603-1651	1588-1636	1603-1651
			US\$/mt	2096-2159	2115-2179	2118-2181
	Domestic Medium	Contract DEL	€/mt	1828-1966	1813-1951	1828-1966
			US\$/mt	2390-2571	2415-2599	2415-2597
	Flake Export	FOB	€/mt	1698-1728	1637-1689	1696-1726
			US\$/mt	2220-2260	2180-2250	2240-2280
PA6 Polymer	Fibre (std)	Contract DEL	€/mt	2050-2120	2050-2120	2050-2120
			US\$/mt	2680-2772	2731-2824	2708-2801
	Fibre (diff)	Contract DEL	€/mt	2200-2250	2200-2250	2200-2250
			US\$/mt	2877-2942	2931-2997	2906-2972
	EP grade	Contract DEL	€/mt	2000-2050	2000-2050	2000-2050
			US\$/mt	2615-2680	2664-2731	2642-2708
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Contract DEL	€/mt	2600-2800	2600-2800	2600-2800
			US\$/mt	3400-3661	3463-3730	3435-3699
	Fibre (diff)差异化	Contract DEL	€/mt	2700-2900	2700-2900	2700-2900
			US\$/mt	3530-3792	3597-3863	3567-3831
	EP grade复合型	Contract DEL	€/mt	2425-2550	2425-2550	2375-2500
			US\$/mt	3171-3334	3230-3397	3137-3303
Adipic Acid	Domestic	Contract DEL	€/mt	1555-1620	1550-1615	1540-1600
	Export	FOB	US\$/mt	1700-1750	1670-1700	1700-1750

\$ per € Rate =

1.308

1.332

1.321

RMB per \$ Rate =

6.174

6.161

6.160

October 2013
No 287
24.10.2013



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Benzene prices fall across the world, with further declines expected during the remainder of Q4 2013.
- Caprolactam prices increase marginally in Asia, but weakness in downstream markets is likely to cap rally.
- BASF & Yara study joint investment in world scale ammonia plant on the US Gulf Coast.

NEWS NYLON FIBRES 尼龙纤维新闻

- Nylon textile filament prices in China appear to have firmed, but some weakness is now emerging in a slower market. PA6 industrial filament prices have more than responded to higher raw materials costs, but the market remains weak with some volume being lost to polyester in non-critical applications.
- In North America textile filament prices are unchanged, but heavy denier industrial filament has decreased by 5-10 cents/lb.
- Europe is steady in textile filament except for the flat yarn sector where warp knit prices are weaker. The import pressure remains on high denier industrial filament.

UPCOMING EVENTS 近期动向

- PCI Fibres Conference 2013, Hong Kong, 7-8 November 2013, organised by PCI Fibres, www.pcifibres.com
- The Acrylonitrile & Derivatives Conference 2013, Hong Kong, 7-8 November 2013, organised by PCI Acrylonitrile, www.pci-acrylo.com
- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Aug-13	Sep-13	Oct-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2320-2340	2370-2395	2400-2430
	Import Taiwan	Spot CFR	US\$/mt	2280-2300	2340-2380	2360-2400
	Import China	Contract CFR	US\$/mt	2340-2350	2390-2400	2410-2430
	Import China	Spot CFR	US\$/mt	2280-2350	2340-2380	2360-2400
	Domestic China	Spot CFR	RMB/mt	17700-18400	18400-18600	18000-18700
PA6 Polymer	Fibre (std)	Spot CFR	US\$/mt	2620-2670	2630-2660	2660-2720
	Fibre (diff)	Spot CFR	US\$/mt	2690-2740	2700-2730	2730-2790
	EP grade	Spot CFR	US\$/mt	2620-2670	2630-2670	2660-2720
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2850-3000
	Fibre (diff)差别化	Spot CFR	US\$/mt	2850-3200	2900-3200	2900-3200
	EP grade复合型	Spot CFR	US\$/mt	2850-3150	2850-3150	2850-3150
China Source Polymers	PA6 Fibre (std)	Spot CFR	RMB/mt	18700-19500	19000-19700	18300-19700
	PA6 Fibre (diff)	Spot CFR	RMB/mt	19700-20700	20100-20900	20000-21000
	PA66	Spot CFR	RMB/mt	22000-22500	22500-23000	22800-23000
Adipic Acid		Contract CFR	US\$/mt	1780-1800	1800-1850	1800-1850
	TPU Grade	Spot CFR	US\$/mt	1770-1800	1800-1850	1750-1800
	Standard Grade	Spot CFR	US\$/mt	1550-1600	1600-1680	1600-1650
		Spot CFR	RMB/mt	10300-12900	11000-13000	10700-12800

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	94	98	98
			US\$/mt	2070	2160	2150
	Flake Export	FOB	c/lb	99	101	102
			US\$/mt	2185	2230	2250
PA6 Polymer	Fibre (std)	CFR	US\$/mt	2710-2800	2620-2755	2620-2755
	Fibre (diff)	CFR	US\$/mt	3010-3225	2920-3180	2920-3180
	EP grade	CFR	US\$/mt	2800-2866	2755-2820	2755-2820
PA66 Polymer	Fibre (std)	CFR	US\$/mt	2495-3160	2540-3215	2560-3180
	Fibre (diff)	CFR	US\$/mt	2695-3235	2740-3290	2750-3300
	EP grade	CFR	US\$/mt	2975-3085	2975-3085	2800-2900
Adipic Acid	Domestic	Contract CFR	US\$/mt	2160-2315	2180-2335	2180-2335
	Export	FOB	US\$/mt	1695-1725	1725-1775	1675-1725

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1588-1636	1603-1651	1573-1621
			US\$/mt	2115-2179	2139-2203	2135-2200
	Domestic Medium	Contract DEL	€/mt	1813-1951	1828-1966	1798-1936
			US\$/mt	2415-2599	2439-2623	2441-2628
	Flake Export	FOB	€/mt	1637-1689	1679-1709	1665-1694
			US\$/mt	2180-2250	2240-2280	2260-2300
PA6 Polymer	Fibre (std)	Contract DEL	€/mt	2050-2120	2050-2120	2000-2070
			US\$/mt	2731-2824	2736-2829	2715-2810
	Fibre (diff)	Contract DEL	€/mt	2200-2250	2200-2250	2175-2225
			US\$/mt	2931-2997	2936-3002	2952-3020
	EP grade	Contract DEL	€/mt	2000-2050	2000-2050	1970-2035
			US\$/mt	2664-2731	2669-2736	2674-2762
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Contract DEL	€/mt	2600-2800	2600-2800	2500-2700
			US\$/mt	3463-3730	3469-3736	3394-3665
	Fibre (diff)差异化	Contract DEL	€/mt	2700-2900	2700-2900	2600-2800
			US\$/mt	3597-3863	3603-3870	3529-3801
	EP grade复合型	Contract DEL	€/mt	2425-2550	2375-2500	2300-2400
			US\$/mt	3230-3397	3169-3336	3122-3258
Adipic Acid	Domestic	Contract DEL	€/mt	1550-1615	1540-1600	1525-1580
	Export	FOB	US\$/mt	1670-1700	1700-1750	1650-1700

\$ per € Rate =
RMB per \$ Rate =

1.332 1.334 1.357
6.161 6.149 6.129

November 2013
No 288
21.11.2013



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Benzene contract prices fell in all regions in November, but current spot prices indicate a rebound in December.
- Asian caprolactam prices weaken on the back of lower benzene prices and increasing supply.
- Capro Corp of South Korea stops one caprolactam line indefinitely in response to low prices and weak demand.

NEWS NYLON FIBRES 尼龙纤维新闻

- Nylon textile filament prices in China have weakened this month in a more difficult market, especially for circular knitting. PA6 industrial filament prices have also decreased.
- In North America filament prices across the board are unchanged. Demand on the textile side has weakened and for industrial filament it remains very poor, with the exception of the airbag business.
- In Europe textile filament volumes are reasonably firm, but industrial filament demand is also poor outside of airbags. Prices are showing weakness across various sectors.

UPCOMING EVENTS 近期动向

- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Sep-13	Oct-13	Nov-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2370-2395	2400-2430	2340-2375
	Import Taiwan	Spot CFR	US\$/mt	2340-2380	2360-2400	2270-2380
	Import China	Contract CFR	US\$/mt	2390-2400	2410-2430	*2360-2375
	Import China	Spot CFR	US\$/mt	2340-2380	2360-2400	2280-2380
	Domestic China	Spot EXW	RMB/mt	18400-18600	18000-18700	16900-18000
PA6 Polymer	Fibre (std)	Spot CFR	US\$/mt	2630-2660	2660-2720	2650-2700
	Fibre (diff)	Spot CFR	US\$/mt	2700-2730	2730-2790	2720-2770
	EP grade	Spot CFR	US\$/mt	2630-2670	2660-2720	2650-2700
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2900-3000
	Fibre (diff)差别化	Spot CFR	US\$/mt	2900-3200	2900-3200	2950-3150
	EP grade复合型	Spot CFR	US\$/mt	2850-3150	2850-3150	2900-3150
China Source Polymers	PA6 Fibre (std)	Spot EXW	RMB/mt	19000-19700	18300-19700	17900-19200
	PA6 Fibre (diff)	Spot EXW	RMB/mt	20100-20900	20000-21000	19700-20700
	PA66	Spot EXW	RMB/mt	22500-23000	22800-23000	22800-23000
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	1800-1850
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1750-1800	1750-1800
	Standard Grade	Spot CFR	US\$/mt	1600-1680	1600-1650	1580-1620
		Spot EXW	RMB/mt	11000-13000	10700-12800	10000-12400

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	98	98	94
			US\$/mt	2160	2150	2070
	Flake Export	FOB	c/lb	101	102	100
			US\$/mt	2230	2250	2208
PA6 Polymer	Fibre (std)	CFR	US\$/mt	2620-2755	2620-2755	2600-2725
	Fibre (diff)	CFR	US\$/mt	2920-3180	2920-3180	2900-3160
	EP grade	CFR	US\$/mt	2755-2820	2755-2820	2715-2780
PA66 Polymer	Fibre (std)	CFR	US\$/mt	2540-3215	2560-3180	2570-3120
	Fibre (diff)	CFR	US\$/mt	2740-3290	2750-3300	2770-3325
	EP grade	CFR	US\$/mt	2975-3085	2800-2900	2700-2900
Adipic Acid	Domestic	Contract CFR	US\$/mt	2180-2335	2180-2335	2161-2227
	Export	FOB	US\$/mt	1725-1775	1675-1725	1675-1725

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1603-1651	1573-1621	NF
			US\$/mt	2139-2203	2145-2211	NF
	Domestic Medium	Contract DEL	€/mt	1828-1966	1798-1936	NF
			US\$/mt	2439-2623	2452-2640	NF
	Flake Export	FOB	€/mt	1679-1709	1657-1687	1618-1693
			US\$/mt	2240-2280	2260-2300	2180-2280
PA6 Polymer	Fibre (std)	Contract DEL	€/mt	2050-2120	2000-2070	1980-2050
			US\$/mt	2736-2829	2727-2823	2667-2761
	Fibre (diff)	Contract DEL	€/mt	2200-2250	2175-2225	2150-2200
			US\$/mt	2936-3002	2966-3034	2896-2963
	EP grade	Contract DEL	€/mt	2000-2050	1970-2035	1930-2000
			US\$/mt	2669-2736	2686-2775	2600-2694
PA66 Polymer 聚酰胺66聚合物	Fibre (std)标准型	Contract DEL	€/mt	2600-2800	2500-2700	2400-2600
			US\$/mt	3469-3736	3409-3682	3233-3502
	Fibre (diff)差异化	Contract DEL	€/mt	2700-2900	2600-2800	2500-2700
			US\$/mt	3603-3870	3546-3818	3367-3637
	EP grade复合型	Contract DEL	€/mt	2375-2500	2300-2400	2200-2350
			US\$/mt	3169-3336	3137-3273	2963-3165
Adipic Acid	Domestic	Contract DEL	€/mt	1540-1600	1525-1580	1485-1540
	Export	FOB	US\$/mt	1700-1750	1650-1700	1650-1700

* - provisional

\$ per € Rate =

RMB per \$ Rate =

1.334

6.149

1.364

6.126

1.347

6.130

December
2013
No 289
19.12.2013



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES 尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Benzene prices rebounded strongly in all regions and current spot prices indicate further increases in January.
- PA intermediates producers were only partially successful at passing the benzene increases on, if at all, and have signalled their intention to raise prices in January.
- BASF expands EP compounding capacity in Korea.
- Rhodia / Solvay prepares to restart its adipic acid plant in Chalampe in a lower energy, lower emission, lower capacity configuration.

NEWS NYLON FIBRES 尼龙纤维新闻

- In a tough climate as regards year-end cash flow, the nylon textile filament market in China has weakened further this month. The nylon industrial filament sector is in better health but volumes are also reduced as the industry winds down at the year end.
- In North America nylon filament prices are unchanged, but volumes are weaker; although there is some optimism in the textile sector concerning business in Q1.
- In West Europe the various nylon filament sectors are cutting back production moving towards the holiday. Prices are steady except for some further softening in the BCF position.

UPCOMING CONFERENCE DATES 近期会议日期

- 8th European Nylon Symposium, Frankfurt, 26./27.02.2013
- 7th American Nylon Symposium, Atlanta, 27./28.03.2013

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PRICES INTERMEDIATES AND POLYMERS 中间体和聚合物价格

ASIA	Type	Terms	Unit	Oct-13	Nov-13	Dec-13
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2400-2430	2340-2375	2340-2355
	Import Taiwan	Spot CFR	US\$/mt	2360-2400	2270-2380	2280-2310
	Import China	Contract CFR	US\$/mt	2410-2430	2360-2375	2350-2360
	Import China	Spot CFR	US\$/mt	2360-2400	2280-2380	2290-2330
	Domestic China	Spot EXW	RMB/mt	18000-18700	16900-18000	16900-17600
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2660-2720	2650-2700	2640-2680
	Differentiated	Spot CFR	US\$/mt	2730-2790	2720-2770	2710-2750
	Compounding Grade	Spot CFR	US\$/mt	2660-2720	2650-2700	2630-2680
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2850-3000	2900-3000	2850-3000
	Differentiated 差别化	Spot CFR	US\$/mt	2900-3200	2950-3150	2900-3150
	Compounding Grade 复合料	Spot CFR	US\$/mt	2850-3150	2900-3150	2850-3150
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	18300-19700	17900-19200	18000-19000
	PA6 Differentiated	Spot EXW	RMB/mt	20000-21000	19700-20700	19400-20200
	PA66	Spot EXW	RMB/mt	22800-23000	22800-23000	22800-23000
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	1800-1850
	TPU Grade	Spot CFR	US\$/mt	1750-1800	1750-1800	1770-1820
	Standard Grade	Spot CFR	US\$/mt	1600-1650	1580-1620	1550-1600
		Spot EXW	RMB/mt	10700-12800	10000-12400	10200-12300

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	98	94	101
			US\$/mt	2150	2070	2228
	Flake Export	FOB	c/lb	102	100	98
			US\$/mt	2250	2208	2163
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2620-2755	2600-2725	2600-2725
	Differentiated	CFR	US\$/mt	2920-3180	2900-3160	2900-3160
	Compounding Grade	CFR	US\$/mt	2755-2820	2715-2780	2715-2780
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2560-3180	2570-3120	2625-3245
	Differentiated	CFR	US\$/mt	2750-3300	2770-3325	2825-3350
	Compounding Grade	CFR	US\$/mt	2800-2900	2700-2900	2750-3000
Adipic Acid	Domestic	Contract CFR	US\$/mt	2180-2335	2161-2227	2211-2277
	Export	FOB	US\$/mt	1675-1725	1675-1725	1695-1745

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1573-1621	1533-1576	NF
			US\$/mt	2145-2211	2069-2127	NF
	Domestic Medium	Contract DEL	€/mt	1798-1936	1758-1891	NF
			US\$/mt	2452-2640	2373-2552	NF
	Flake Export	FOB	€/mt	1657-1687	1615-1689	1601-1630
			US\$/mt	2260-2300	2180-2280	2190-2230
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	2000-2070	1980-2050	1980-2080
			US\$/mt	2727-2823	2672-2767	2708-2845
	Differentiated	Contract DEL	€/mt	2175-2225	2150-2200	2175-2225
			US\$/mt	2966-3034	2902-2969	2975-3043
	Compounding Grade	Contract DEL	€/mt	1970-2035	1930-2000	1930-2025
			US\$/mt	2686-2775	2605-2699	2640-2770
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2500-2700	2400-2600	2400-2600
			US\$/mt	3409-3682	3239-3509	3283-3556
	Differentiated 差异化	Contract DEL	€/mt	2600-2800	2500-2700	2500-2700
			US\$/mt	3546-3818	3374-3644	3420-3693
	Compounding Grade 复合料	Contract DEL	€/mt	2300-2400	2200-2350	2200-2350
			US\$/mt	3137-3273	2969-3172	3009-3214
Adipic Acid	Domestic	Contract DEL	€/mt	1525-1580	1485-1540	1530-1585
	Export	FOB	US\$/mt	1650-1700	1650-1700	1670-1720

\$ per € Rate =
RMB per \$ Rate =

1.364 1.350 1.368
6.126 6.129 6.116

January 2014
No 290
23.01.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Benzene prices continued to climb throughout the world, and further advances are predicted for February.
- Honeywell & BASF announce significant price increases in CPL & PA6 in North America to try and pass on escalating raw material costs.
- Invista announces its intention to enter the PA12 industry.

NEWS NYLON FIBRES 尼龙纤维新闻

- China is now slowing down towards the Lunar New Year, and textile filament producers have largely ignored firmer raw materials costs with some lower prices in a thin market. Export prices for industrial filament yarn have moved up slightly.
- Stronger business in US nylon industrial filament market, but weakness of Q4 has led to lower prices. In the carpets sector buoyant statistics help engender some optimism.
- Seasonal dip in hosiery volumes in Europe, where new textile filament capacity is emerging this year. The industrial filament business remains weak, and BCF continues to face challenges from other types of floorcovering.

UPCOMING EVENTS 近期动向

- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS 中间体和聚合物价格

ASIA	Type	Terms	Unit	Nov-13	Dec-13	Jan-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2340-2375	2340-2355	2370-2390
	Import Taiwan	Spot CFR	US\$/mt	2270-2380	2280-2310	2320-2370
	Import China	Contract CFR	US\$/mt	2360-2375	2350-2360	2370-2380
	Import China	Spot CFR	US\$/mt	2280-2380	2290-2330	2340-2360
	Domestic China	Spot EXW	RMB/mt	16900-18000	16900-17600	17400-17700
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2650-2700	2640-2680	2650-2690
	Differentiated	Spot CFR	US\$/mt	2720-2770	2710-2750	2720-2760
	Compounding Grade	Spot CFR	US\$/mt	2650-2700	2630-2680	2650-2680
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2900-3000	2850-3000	2850-3000
	Differentiated 差别化	Spot CFR	US\$/mt	2950-3150	2900-3150	2900-3150
	Compounding Grade 复合型	Spot CFR	US\$/mt	2900-3150	2850-3150	2850-3150
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	17900-19200	18000-19000	18400-19200
	PA6 Differentiated	Spot EXW	RMB/mt	19700-20700	19400-20200	19400-20200
	PA66	Spot EXW	RMB/mt	22800-23000	22800-23000	23000-23300
Adipic Acid	TPU Grade Standard Grade	Contract CFR	US\$/mt	1800-1850	1800-1850	1800-1850
		Spot CFR	US\$/mt	1750-1800	1770-1820	1800-1850
		Spot CFR	US\$/mt	1580-1620	1550-1600	1600-1650
		Spot EXW	RMB/mt	10000-12400	10200-12300	10500-12300

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	94	101	106
			US\$/mt	2070	2228	2329
	Flake Export	FOB	c/lb	100	98	100
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2600-2725	2600-2725	2600-2725
	Differentiated	CFR	US\$/mt	2900-3160	2900-3160	2900-3160
	Compounding Grade	CFR	US\$/mt	2715-2780	2715-2780	2715-2780
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2570-3120	2625-3245	2680-3250
	Differentiated	CFR	US\$/mt	2770-3325	2825-3350	2875-3400
	Compounding Grade	CFR	US\$/mt	2700-2900	2750-3000	2775-3025
Adipic Acid	Domestic	Contract CFR	US\$/mt	2161-2227	2211-2277	2211-2277
	Export	FOB	US\$/mt	1675-1725	1695-1745	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1533-1576	1568-1611	1603-1646
			US\$/mt	2069-2127	2148-2207	2186-2245
	Domestic Medium	Contract DEL	€/mt	1758-1891	1793-1926	1828-1961
			US\$/mt	2373-2552	2456-2638	2493-2674
	Flake Export	FOB	€/mt	1615-1689	1599-1628	1643-1657
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	1980-2050	1980-2080	2030-2130
			US\$/mt	2672-2767	2712-2849	2768-2905
	Differentiated	Contract DEL	€/mt	2150-2200	2175-2225	2225-2275
			US\$/mt	2902-2969	2979-3048	3034-3102
	Compounding Grade	Contract DEL	€/mt	1930-2000	1930-2025	1980-2075
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2400-2600	2400-2600	2400-2600
			US\$/mt	3239-3509	3287-3561	3273-3546
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3374-3644	3424-3698	3409-3682
	Compounding Grade 复合型	Contract DEL	€/mt	2200-2350	2200-2350	2225-2350
Adipic Acid	Domestic	Contract DEL	€/mt	1485-1540	1530-1585	1550-1605
	Export	FOB	US\$/mt	1650-1700	1670-1720	1700-1750

\$ per € Rate =
RMB per \$ Rate =

1.350
6.129

1.370
6.115

1.364
6.098

February 2014
No 291
20.02.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Escalating benzene prices continue to exert margin pressure on polyamide, but prices are expected to weaken in March.
- Supply of PA6 raw materials to China reaches 218ktes in January 2014, and market looks increasingly over-supplied.
- Invista reconsiders ammonia / hydrogen investment in Victoria; Grupa Azoty contemplates PA6 polymer expansion in Poland.

NEWS NYLON FIBRES 尼龙纤维新闻

- Asian markets are only just restarting after the Lunar New Year, but there are already signs of downward price pressure in textile filament.
- In the Americas the textile filament sector is steady-to-firm, some heavy denier industrial filament applications are weaker, and the carpets market is a little more hesitant as signals for the US economy turn for the moment from green to amber.
- In Europe there are some signs that textile filament capacity growth may have run a little ahead of demand, in heavy denier industrial filament the import attack through low pricing has intensified, while in BCF there remains a distinct shortage of demand.

UPCOMING EVENTS 近期动向

- 8th European Nylon Symposium, Frankfurt, 26-27 February 2014
- 7th American Nylon Symposium, Atlanta, 27-28 March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Dec-13	Jan-14	Feb-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2340-2355	2370-2390	2370-2390#
	Import Taiwan	Spot CFR	US\$/mt	2280-2310	2320-2370	2330-2345
	Import China	Contract CFR	US\$/mt	2350-2360	2370-2380	2370-2380
	Import China	Spot CFR	US\$/mt	2290-2330	2340-2360	2330-2350
	Domestic China	Spot EXW	RMB/mt	16900-17600	17400-17700	17000-17400
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2640-2680	2650-2690	2660-2690
	Differentiated	Spot CFR	US\$/mt	2710-2750	2720-2760	2730-2760
	Compounding Grade	Spot CFR	US\$/mt	2630-2680	2650-2680	2660-2690
PA66 Polymer Fibre 聚酰胺66聚合物	Standard 标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2850-3000
	Differentiated 差异化	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	Compounding Grade 复合型	Spot CFR	US\$/mt	2850-3150	2850-3150	2900-3150
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	18000-19000	18400-19200	18200-19200
	PA6 Differentiated	Spot EXW	RMB/mt	19400-20200	19400-20200	19400-20100
	PA66	Spot EXW	RMB/mt	22800-23000	23000-23300	23100-23300
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	1850-1900
	TPU Grade	Spot CFR	US\$/mt	1770-1820	1800-1850	1800-1850
	Standard Grade	Spot CFR	US\$/mt	1550-1600	1600-1650	1650-1700
		Spot EXW	RMB/mt	10200-12300	10500-12300	10900-12300

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	101	106	111
			US\$/mt	2228	2329	2447
	Flake Export	FOB	c/lb	98	100	100
			US\$/mt	2163	2213	2206
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2600-2725	2600-2725	2820-2945
	Differentiated	CFR	US\$/mt	2900-3160	2900-3160	3050-3310
	Compounding Grade	CFR	US\$/mt	2715-2780	2715-2780	2890-2955
PA66 Polymer Fibre	Standard	CFR	US\$/mt	2625-3245	2680-3250	2741-3300
	Differentiated	CFR	US\$/mt	2825-3350	2875-3400	2850-3350
	Compounding Grade	CFR	US\$/mt	2750-3000	2775-3025	2750-3000
Adipic Acid	Domestic	Contract CFR	US\$/mt	2211-2277	2211-2277	2211-2277
	Export	FOB	US\$/mt	1695-1745	1725-1775	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1568-1611	1603-1646	1653-1701
			US\$/mt	2148-2207	2186-2244	2247-2312
	Domestic Medium	Contract DEL	€/mt	1793-1926	1828-1961	1878-2016
			US\$/mt	2456-2638	2493-2674	2553-2740
	Flake Export	FOB	€/mt	1599-1628	1643-1657	1641-1655
			US\$/mt	2190-2230	2240-2260	2230-2250
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	1980-2080	2030-2130	2050-2175
			US\$/mt	2712-2849	2768-2904	2786-2956
	Differentiated	Contract DEL	€/mt	2175-2225	2225-2275	2245-2300
			US\$/mt	2979-3048	3034-3102	3052-3126
	Compounding Grade	Contract DEL	€/mt	1930-2025	1980-2075	2030-2170
			US\$/mt	2643-2774	2700-2829	2759-2950
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2400-2600	2400-2600	2400-2600
			US\$/mt	3287-3561	3272-3545	3262-3534
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3424-3698	3409-3681	3398-3670
	Compounding Grade 复合型	Contract DEL	€/mt	2200-2350	2225-2350	2225-2350
			US\$/mt	3013-3219	3034-3204	3024-3194
Adipic Acid	Domestic	Contract DEL	€/mt	1530-1585	1550-1605	1560-1620
	Export	FOB	US\$/mt	1670-1720	1700-1750	1700-1750

provisional

\$ per € Rate =

RMB per \$ Rate =

1.370

6.115

1.364

6.098

1.359

6.101

March 2014
No 292
20.03.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Benzene prices finally begin to fall in all regions, but large differences now exist between East (low) and West (high).
- The caprolactam market in Asia stalls on weak demand and growing supply. Contract price negotiations prove difficult as spot prices continue to fall.
- Yangmei Fengxi unveils plans for a 200ktes/yr CPL project.

NEWS NYLON FIBRES 尼龙纤维新闻

- Most Asian markets are now fully operational after the holiday, but demand is weak, inventories high, and operating rates at low levels (particularly downstream). Prices are under pressure across all filament types, with some yarn producers reducing quotes in anticipation of further weakness in raw materials.
- In the Americas, the textile and industrial sectors are firm, but the carpet sector has started the year slowly; the tough winter is cited as the main cause of slower volumes.
- In Europe textile filament demand is satisfactory, and the industrial filament sector is still facing quiet trading, but there are indications that fibre use for autos might be improving. There is however very little sign of improvement in the carpet business.

UPCOMING CONFERENCE DATES 近期会议日期

- 7th American Nylon Symposium, Atlanta, 27th/28th March 2014

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Jan-14	Feb-14	Mar-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2370-2390	2360-2390	2340#
	Import Taiwan	Spot CFR	US\$/mt	2320-2370	2330-2345	2200-2300
	Import China	Contract CFR	US\$/mt	2370-2380	2370-2380	NF
	Import China	Spot CFR	US\$/mt	2340-2360	2330-2350	2230-2300
	Domestic China	Spot EXW	RMB/mt	17400-17700	17000-17400	15200-15600
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2650-2690	2660-2690	2600-2660
	Differentiated	Spot CFR	US\$/mt	2720-2760	2730-2760	2670-2730
	Compounding Grade	Spot CFR	US\$/mt	2650-2680	2660-2690	2600-2660
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2850-3000	2850-3000	2900-3000
	Differentiated 差异化	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	Compounding Grade 复合型	Spot CFR	US\$/mt	2850-3150	2900-3150	2900-3150
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	18400-19200	18200-19200	17200-18500
	PA6 Differentiated	Spot EXW	RMB/mt	19400-20200	19400-20100	18600-19700
	PA66	Spot EXW	RMB/mt	23000-23300	23100-23300	23100-23500
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1850-1900	1850-1900
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1800-1850	1850-1880
	Standard Grade	Spot CFR	US\$/mt	1600-1650	1650-1700	1650-1700
		Spot EXW	RMB/mt	10500-12300	10900-12300	10500-12300

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	106	111	108
			US\$/mt	2329	2447	2383
	Flake Export	FOB	c/lb	100	100	96
			US\$/mt	2213	2206	2118
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2600-2725	2820-2945	2820-2945
	Differentiated	CFR	US\$/mt	2900-3160	3050-3310	3050-3310
	Compounding Grade	CFR	US\$/mt	2715-2780	2890-2955	2890-2955
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2680-3250	2741-3300	2815-3300
	Differentiated	CFR	US\$/mt	2875-3400	2850-3350	2900-3400
	Compounding Grade	CFR	US\$/mt	2775-3025	2750-3000	2850-3100
Adipic Acid	Domestic	Contract CFR	US\$/mt	2211-2277	2211-2277	2211-2277
	Export	FOB	US\$/mt	1725-1775	1725-1775	1775-1805

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1603-1646	1653-1696	NF
			US\$/mt	2186-2244	2256-2314	NF
	Domestic Medium	Contract DEL	€/mt	1828-1961	1878-2011	NF
			US\$/mt	2493-2674	2563-2744	NF
	Flake Export	FOB	€/mt	1643-1657	1634-1649	1539-1590
			US\$/mt	2240-2260	2230-2250	2130-2200
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	2030-2130	2050-2175	2100-2225
			US\$/mt	2768-2904	2797-2968	2906-3079
	Differentiated	Contract DEL	€/mt	2225-2275	2245-2300	2250-2300
			US\$/mt	3034-3102	3064-3139	3114-3183
	Compounding Grade	Contract DEL	€/mt	1980-2075	2030-2170	2080-2210
			US\$/mt	2700-2829	2770-2961	2878-3058
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2400-2600	2400-2600	2425-2600
			US\$/mt	3272-3545	3275-3548	3356-3598
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3409-3681	3412-3684	3460-3737
	Compounding Grade 复合型	Contract DEL	€/mt	2225-2350	2225-2350	2250-2350
			US\$/mt	3034-3204	3036-3207	3114-3252
Adipic Acid	Domestic	Contract DEL	€/mt	1550-1605	1560-1620	1590-1650
	Export	FOB	US\$/mt	1700-1750	1700-1750	1750-1780

provisional

\$ per € Rate =

RMB per \$ Rate =

1.364	1.365	1.384
6.098	6.107	6.131

April 2014
No 293
17.04.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Ammonia prices spike throughout the world as increasing seasonal demand collides with constrained supply.
- Caprolactam prices fall heavily in Asia in March / April, but spot markets are now showing some signs of a rebound.
- CPDC gets approval from Taiwanese government for its mega-project in mainland China.

NEWS NYLON FIBRES 尼龙纤维新闻

- Asian markets are back to regular working after the holiday, experiencing some strengthening of NTF demand, but utilisation rates are low and pricing generally weak. Industrial filament prices are weaker, influenced by the raw materials position and continuing slowness in the tyre sector.
- In the Americas, the nylon textile filament market is working at quite high rates but with very short order-books. US domestic supply of industrial filament is holding steady, but there has been a reduction in yarn imports. The US carpet sector has started the year at a disappointingly low level of BCF production.
- The European textile filament market is also experiencing short order-books but demand is at acceptable levels. There are some indications of recovery in industrial filament volumes, while the carpet sector has seen improvement in contract demand which should favour nylon.

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Feb-14	Mar-14	Apr-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2360-2390	2180-2340	2180-2180#
	Import Taiwan	Spot CFR	US\$/mt	2330-2345	†2200-2250	2100-2250
	Import China	Contract CFR	US\$/mt	2370-2380	2200-2300	NF
	Import China	Spot CFR	US\$/mt	2330-2350	2230-2300	2150-2220
	Domestic China	Spot EXW	RMB/mt	17000-17400	15200-15600	15200-16000
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2660-2690	2600-2660	2480-2530
	Differentiated	Spot CFR	US\$/mt	2730-2760	2670-2730	2550-2600
	Compounding Grade	Spot CFR	US\$/mt	2660-2690	2600-2660	2480-2530
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2850-3000	2900-3000	2900-3000
	Differentiated 差异化	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	Compounding Grade	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	复合型					
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	18200-19200	17200-18500	16800-18000
	PA6 Differentiated	Spot EXW	RMB/mt	19400-20100	18600-19700	17800-18600
	PA66	Spot EXW	RMB/mt	23100-23300	23100-23500	23300-23500
Adipic Acid		Contract CFR	US\$/mt	1850-1900	†1800-1850	1800-1850#
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1850-1880	1800-1850
	Standard Grade	Spot CFR	US\$/mt	1650-1700	1650-1700	1530-1600
		Spot EXW	RMB/mt	10900-12300	10500-12300	10100-12200

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	111	108	107
			US\$/mt	2447	2383	2348
	Flake Export	FOB	c/lb	100	96	93
			US\$/mt	2206	2118	2043
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2820-2945	2820-2945	2820-2945
	Differentiated	CFR	US\$/mt	3050-3310	3050-3310	3050-3310
	Compounding Grade	CFR	US\$/mt	2890-2955	2890-2955	2915-2975
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2741-3300	2815-3300	2845-3300
	Differentiated	CFR	US\$/mt	2850-3350	2900-3400	2950-3400
	Compounding Grade	CFR	US\$/mt	2750-3000	†2800-3000	2900-3050
Adipic Acid	Domestic	Contract DDP	US\$/mt	2211-2277	2211-2277	2200-2275
	Export	FOB	US\$/mt	1725-1775	1775-1805	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1653-1696	1653-1696	1669-1712#
			US\$/mt	2256-2314	2286-2345	2301-2360
	Domestic Medium	Contract DEL	€/mt	1878-2011	1878-2011	1894-2027#
			US\$/mt	2563-2744	2597-2781	2611-2795
	Flake Export	FOB	€/mt	1634-1649	1540-1591	1487-1538
			US\$/mt	2230-2250	2130-2200	2050-2120
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	2050-2175	2100-2225	2120-2250
			US\$/mt	2797-2968	2904-3077	2923-3102
	Differentiated	Contract DEL	€/mt	2245-2300	2250-2300	2275-2325
			US\$/mt	3064-3139	3111-3180	3137-3206
	Compounding Grade	Contract DEL	€/mt	2030-2170	2080-2210	2100-2230
			US\$/mt	2770-2961	2876-3056	2895-3075
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2400-2600	2425-2600	2425-2600
			US\$/mt	3275-3548	3353-3595	3343-3585
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3412-3684	3457-3733	3447-3723
	Compounding Grade 复合型	Contract DEL	€/mt	2225-2350	2250-2350	2250-2350
			US\$/mt	3036-3207	3111-3249	3102-3240
Adipic Acid	Domestic	Contract DEL	€/mt	1560-1620	1590-1650	1600-1660
	Export	FOB	US\$/mt	1700-1750	1750-1780	1700-1750

† - revised

- provisional

\$ per € Rate =

RMB per \$ Rate =

1.365

6.107

1.383

6.141

1.379

6.168

May 2014
No 294
22.05.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- CPL contracts in Asia remain unresolved, but spot prices are increasing.
- Shanxi Lubao Xinghai New Material Company to build a fully-integrated PA6 chain in China.
- Sumitomo Chemical announce the closure of older CPL line in 2015.
- Solvay & Invista renew Butachimie JV agreement.

NEWS NYLON FIBRES 尼龙纤维新闻

- Asian nylon filament markets are generally weaker in price, but firmer in volume as the current production season for textiles in China comes to a peak. The same problems remain however: weaker than expected demand, too much stock all along the supply chain, and very poor finances. Nylon high tenacity has failed to lift volumes, especially into the tyre sector.
- In the Americas, nylon textile filament business is a little slower, and Invista is looking to install some polyester airbag yarn capacity in Canada. US producer shipments of BCF in Q1 were -7% down and yarn inventories have risen.
- Textile filament activity in Europe is a little slower, but industrial filament a little improved, with non-tyre applications accepting a further price increase. The contract carpet sector is performing slightly ahead of expectations, with raw material cost pressure encouraging further small yarn price increases.

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Mar-14	Apr-14	May-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2180-2340	2180-2230	NF
	Import Taiwan	Spot CFR	US\$/mt	2200-2250	2100-2250	2150-2220
	Import China	Contract CFR	US\$/mt	2200-2300	2180-2200	NF
	Import China	Spot CFR	US\$/mt	2230-2300	2150-2220	2180-2220
	Domestic China	Spot EXW	RMB/mt	15200-15600	15200-16000	15800-16300
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2600-2660	2480-2530	2500-2530
	Differentiated	Spot CFR	US\$/mt	2670-2730	2550-2600	2570-2600
	Compounding Grade	Spot CFR	US\$/mt	2600-2660	2480-2530	2500-2530
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2900-3000	2900-3000	2900-3000
	Differentiated 差异化	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	Compounding Grade	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3150
	复合型					
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	17200-18500	16800-18000	17500-18000
	PA6 Differentiated	Spot EXW	RMB/mt	18600-19700	17800-18600	18100-18800
	PA66	Spot EXW	RMB/mt	23100-23500	23300-23500	23300-23500
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	#1800-1850
	TPU Grade	Spot CFR	US\$/mt	1850-1880	1800-1850	1800-1850
	Standard Grade	Spot CFR	US\$/mt	1650-1700	1530-1600	1550-1600
		Spot EXW	RMB/mt	10500-12300	10100-12200	10000-12000

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	108	107	104
			US\$/mt	2383	2348	2282
	Flake Export	FOB	c/lb	96	93	93
			US\$/mt	2118	2043	2053
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2820-2945	2820-2945	2820-2945
	Differentiated	CFR	US\$/mt	3050-3310	3050-3310	3050-3310
	Compounding Grade	CFR	US\$/mt	2890-2955	2915-2975	2915-2975
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2815-3300	2845-3300	2950-3300
	Differentiated	CFR	US\$/mt	2900-3400	2950-3400	3000-3400
	Compounding Grade	CFR	US\$/mt	2800-3000	2900-3050	2950-3100
Adipic Acid	Domestic	Contract DDP	US\$/mt	2211-2277	2200-2275	2000-2100
	Export	FOB	US\$/mt	1775-1805	1725-1775	1725-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1653-1696	1669-1712	1684-1727
			US\$/mt	2286-2345	2294-2354	2324-2384
	Domestic Medium	Contract DEL	€/mt	1878-2011	1894-2027	1909-2042
			US\$/mt	2597-2781	2604-2787	2635-2818
	Flake Export	FOB	€/mt	1540-1591	1491-1542	1507-1536
			US\$/mt	2130-2200	2050-2120	2080-2120
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	2100-2225	2120-2250	2120-2250
			US\$/mt	2904-3077	2914-3093	2926-3106
	Differentiated	Contract DEL	€/mt	2250-2300	2275-2325	2275-2325
			US\$/mt	3111-3180	3128-3196	3140-3209
	Compounding Grade	Contract DEL	€/mt	2080-2210	2100-2230	2100-2230
			US\$/mt	2876-3056	2887-3066	2899-3078
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2425-2600	2425-2600	2425-2600
			US\$/mt	3353-3595	3334-3574	3347-3589
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3457-3733	3437-3712	3451-3727
	Compounding Grade 复合型	Contract DEL	€/mt	2250-2350	2250-2350	2300-2400
			US\$/mt	3111-3249	3093-3231	3175-3313
Adipic Acid	Domestic	Contract DEL	€/mt	1590-1650	1600-1660	1525-1600
	Export	FOB	US\$/mt	1750-1780	1700-1750	1700-1750

NF - Not Fixed

- provisional

\$ per € Rate =

RMB per \$ Rate =

1.383

6.141

1.375

6.169

1.380

6.160

June 2014
No 295
19.06.2014



MONTHLY REPORT

NYLON INTERMEDIATES & FIBRES

尼龙中间体和纤维月报

NEWS NYLON INTERMEDIATES 尼龙中间体新闻

- Oil prices spike in response to developments in Iraq.
- Benzene prices fall in USA and Europe, bringing some welcome margin relief to PA producers, but are expected to rebound to some extent in July.
- BASF & Yara outline details of new hydrogen-based ammonia JV in Freeport, Texas.

NEWS NYLON FIBRES 尼龙纤维新闻

- Nylon filament volumes in Asia are generally reduced, with textile filament yarn prices holding steady, and industrial filament moving up in line with firmer feedstock costs.
- In the Americas, the demand for textile filament is a little easier, and only the airbag sector is showing any strength in the nylon industrial filament business. There is a growing sense that the nylon BCF market is going to remain disappointing for the near-term.
- The nylon textile filament market in Europe is being managed increasingly on a short-term basis, even if volumes are being sustained. BCF yarn prices are unchanged, but steeply-rising dyestuff costs could affect solution-dyed products.

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PRICES INTERMEDIATES AND POLYMERS

ASIA	Type	Terms	Unit	Apr-14	May-14	Jun-14
Caprolactam	Import Taiwan	Contract CFR	US\$/mt	2180-2230	2200-2235	2240-2240*
	Import Taiwan	Spot CFR	US\$/mt	2100-2250	2150-2220	2130-2200
	Import China	Contract CFR	US\$/mt	2180-2200	2200-2230	2240-2240*
	Import China	Spot CFR	US\$/mt	2150-2220	2180-2220	2150-2220
	Domestic China	Spot EXW	RMB/mt	15200-16000	15800-16300	16000-16300
PA6 Polymer	Standard Fibre	Spot CFR	US\$/mt	2480-2530	2500-2530	2480-2520
	Differentiated	Spot CFR	US\$/mt	2550-2600	2570-2600	2550-2590
	Compounding Grade	Spot CFR	US\$/mt	2480-2530	2500-2530	2480-2520
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Spot CFR	US\$/mt	2900-3000	2900-3000	2950-3050
	Differentiated 差异化	Spot CFR	US\$/mt	2900-3150	2900-3150	2950-3200
	Compounding Grade 复合型	Spot CFR	US\$/mt	2900-3150	2900-3150	2900-3200
China Source Polymers	PA6 Standard Fibre	Spot EXW	RMB/mt	16800-18000	17500-18000	17500-18200
	PA6 Differentiated	Spot EXW	RMB/mt	17800-18600	18100-18800	17900-18800
	PA66	Spot EXW	RMB/mt	23300-23500	23300-23500	23300-23500
Adipic Acid		Contract CFR	US\$/mt	1800-1850	1800-1850	1800-1850*
	TPU Grade	Spot CFR	US\$/mt	1800-1850	1800-1850	1780-1850
	Standard Grade	Spot CFR	US\$/mt	1530-1600	1550-1600	1580-1680
		Spot EXW	RMB/mt	10100-12200	10000-12000	10800-11600

UNITED STATES

Caprolactam	Molten Domestic	Contract DEL	c/lb	107	104	103
			US\$/mt	2348	2282	2265
	Flake Export	FOB	c/lb	93	93	92
			US\$/mt	2043	2053	2033
PA6 Polymer	Standard Fibre	CFR	US\$/mt	2820-2945	2820-2945	2820-2945
	Differentiated	CFR	US\$/mt	3050-3310	3050-3310	3050-3310
	Compounding Grade	CFR	US\$/mt	2915-2975	2915-2975	2915-2975
PA66 Polymer	Standard Fibre	CFR	US\$/mt	2845-3300	2950-3300	3000-3270
	Differentiated	CFR	US\$/mt	2950-3400	3000-3400	3050-3375
	Compounding Grade	CFR	US\$/mt	2900-3050	2950-3100	3000-3100
Adipic Acid	Domestic	Contract DDP	US\$/mt	2200-2275	2000-2100	1950-2100
	Export	FOB	US\$/mt	1725-1775	1725-1775	1705-1775

EUROPE

Caprolactam	Domestic Large	Contract DEL	€/mt	1669-1712	1684-1727	N/F
			US\$/mt	2294-2354	2314-2374	N/F
	Domestic Medium	Contract DEL	€/mt	1894-2027	1909-2042	N/F
			US\$/mt	2604-2787	2624-2806	N/F
	Flake Export	FOB	€/mt	1491-1542	1513-1543	1408-1559
			US\$/mt	2050-2120	2080-2120	1915-2120
PA6 Polymer	Standard Fibre	Contract DEL	€/mt	2120-2250	2120-2250	2090-2220
			US\$/mt	2914-3093	2914-3092	2842-3019
	Differentiated	Contract DEL	€/mt	2275-2325	2275-2325	2245-2300
			US\$/mt	3128-3196	3127-3195	3053-3128
	Compounding Grade	Contract DEL	€/mt	2100-2230	2100-2230	2070-2200
			US\$/mt	2887-3066	2886-3065	2815-2992
PA66 Polymer 聚酰胺66聚合物	Standard Fibre 标准型	Contract DEL	€/mt	2425-2600	2425-2600	2425-2600
			US\$/mt	3334-3574	3333-3573	3298-3535
	Differentiated 差异化	Contract DEL	€/mt	2500-2700	2500-2700	2500-2700
			US\$/mt	3437-3712	3436-3711	3400-3671
	Compounding Grade 复合型	Contract DEL	€/mt	2250-2350	2300-2400	2300-2400
			US\$/mt	3093-3231	3161-3299	3128-3264
Adipic Acid	Domestic	Contract DEL	€/mt	1600-1660	1525-1600	1495-1570
	Export	FOB	US\$/mt	1700-1750	1700-1750	1680-1750

* - provisional

\$ per € Rate =

RMB per \$ Rate =

1.375	1.374	1.360
6.169	6.163	6.157

附件 IV-8

WORLD 世界

PA6 & PA66 聚酰胺 6 与 聚酰胺-6, 6

Supply/Demand Report 供/求报告

2013

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PA66 Production 聚酰胺 66 产量

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PA66 Production

聚酰胺66产量

PA66 Production (ktes) 聚酰胺66产量 (千吨)

WORLD 全球总情况

	CAGR 2013-2023	CAGR 2013-2023																					
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		2018	2019	2020	2021	2022	2023
Fibres	Textile Filament	1.0%	351	349	327	334	331	311	251	270	281	239	278	276	282	290	293	296	298	300	302	306	308
	Industrial Filament	2.4%	369	412	422	446	461	446	358	472	498	468	502	527	540	567	557	568	579	592	607	621	634
	Carpet Filament	1.0%	456	493	492	466	419	332	274	244	192	177	196	188	189	192	194	198	200	203	207	212	216
	Total Filament	1.7%	1176	1254	1241	1246	1211	1089	883	986	971	884	976	991	1011	1029	1044	1062	1077	1095	1116	1139	1158
	Staple Fibre	0.5%	295	288	252	210	175	124	101	81	72	62	64	59	60	61	61	62	63	64	65	66	67
	Total	1.7%	1471	1542	1493	1456	1386	1213	984	1067	1043	946	1040	1050	1071	1090	1105	1124	1140	1159	1181	1205	1225
Plastics	Requirement	3.2%	863	943	982	1092	1088	1093	841	1097	1249	1200	1252	1282	1366	1419	1467	1514	1562	1588	1639	1675	1716
	Import	0.0%	285	298	275	329	352	363	285	399	406	404	418	396	400	402	394	396	387	380	394	388	418
	Export	0.0%	285	298	275	329	352	363	285	399	406	404	418	396	400	402	394	396	387	380	394	388	418
	Production	3.2%	863	943	981	1092	1088	1093	841	1097	1250	1200	1252	1282	1366	1419	1467	1514	1562	1588	1639	1676	1715
	Production	1.6%	13	15	15	13	14	13	13	14	16	17	17	18	19	19	20	20	20	20	20	20	20
	Requirement	2.2%	2251	2392	2371	2427	2354	2182	1736	2035	2058	1921	2056	2089	2180	2243	2294	2349	2402	2442	2454	2510	2558
Polymer 聚合物	需求总量																						
	进口量	1.4%	617	684	726	828	949	852	607	760	820	799	834	844	842	879	863	844	816	827	860	926	961
	出口量	1.5%	617	684	726	828	949	852	607	760	820	799	832	844	842	879	863	844	816	827	860	926	961
	产量	2.2%	2251	2392	2371	2427	2354	2182	1736	2035	2058	1921	2054	2089	2181	2243	2294	2349	2401	2441	2454	2510	2558
	产能	1.7%	2807	2848	2862	2948	2975	3082	2794	2664	2785	2811	2898	3003	3083	3268	3333	3338	3443	3443	3443	3443	3443
	产能利用率		80%	84%	83%	82%	79%	71%	62%	76%	74%	68%	71%	70%	71%	69%	69%	70%	72%	71%	71%	73%	74%
66 Salt	Requirement	2.2%	2632	2800	2775	2839	2756	2552	2030	2408	2246	2404	2444	2444	2550	2623	2684	2749	2810	2856	2872	2937	2992
	Import	-2.6%	235	232	274	284	257	214	192	184	189	181	83	64	64	64	64	64	64	64	64	64	64
	Export	-2.6%	235	232	274	284	257	214	192	184	189	181	83	64	64	64	64	64	64	64	64	64	64
	Production	2.2%	2632	2800	2775	2839	2756	2553	2030	2382	2408	2246	2404	2444	2550	2623	2684	2749	2809	2855	2872	2937	2992
	Capacity	1.4%	3730	3716	3801	3801	3801	3877	3512	3357	3437	3453	3689	3689	3771	3973	4019	4029	4089	4219	4219	4219	4219
	Utilisation		71%	75%	73%	75%	73%	66%	58%	71%	70%	65%	65%	66%	68%	66%	67%	68%	69%	68%	70%	70%	71%
HMD	Requirement for PA66	2.2%	1183	1259	1248	1277	1240	1147	914	1073	1084	1011	1082	1100	1149	1182	1210	1238	1265	1284	1293	1323	1348
	Requirement for Other	2.6%	126	136	153	161	187	180	157	174	192	203	208	215	221	229	234	241	247	252	257	262	268
	Total Requirement	2.3%	1309	1395	1401	1438	1427	1327	1071	1247	1276	1214	1290	1315	1370	1411	1444	1479	1512	1536	1550	1585	1616
	Import	0.6%	308	448	425	469	483	476	456	542	543	534	603	632	646	660	660	659	654	660	662	659	642
	Export	0.6%	308	448	425	469	483	476	455	540	540	530	603	632	646	660	660	659	654	660	662	659	642
	Production	2.3%	1309	1395	1400	1439	1427	1326	1069	1245	1274	1211	1290	1315	1369	1411	1444	1479	1513	1538	1550	1585	1616
ADN	Capacity	2.1%	1618	1618	1634	1701	1701	1591	1609	1663	1645	1705	1720	1760	1985	1995	2005	2105	2115	2125	2125	2125	2125
	Utilisation		81%	86%	86%	85%	84%	83%	66%	75%	77%	71%	75%	75%	69%	71%	72%	70%	72%	72%	73%	75%	76%
	Requirement	2.3%	1244	1325	1330	1365	1356	1261	1016	1182	1210	1151	1226	1251	1302	1342	1373	1406	1437	1460	1472	1506	1534
	Import	-5.2%	281	294	208	298	309	336	246	284	287	228	288	258	288	266	311	231	188	167	164	167	168
	Export	-5.2%	281	294	208	298	309	336	246	284	287	228	288	258	288	266	311	231	188	167	164	167	168
	Production	2.3%	1244	1325	1331	1365	1356	1261	1016	1182	1210	1151	1226	1250	1302	1342	1373	1406	1436	1460	1471	1505	1534
Adipic Acid	Capacity	2.4%	1441	1493	1493	1493	1493	1456	1259	1431	1695	1715	1735	1880	1890	1889	1899	2199	2199	2199	2199	2199	2199
	Utilisation		86%	89%	89%	91%	91%	87%	81%	83%	71%	67%	71%	67%	69%	71%	72%	64%	65%	66%	67%	68%	70%
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	2.2%	1474	1568	1554	1589	1543	1428	1137	1333	1349	1259	1346	1368	1427	1469	1504	1539	1574	1600	1609	1644	1675
	Requirement for Other	3.8%	795	845	895	941	1110	1009	1047	1186	1273	1364	1417	1501	1583	1644	1710	1775	1835	1893	1952	2011	2054
	Total Requirement	3.0%	2269	2413	2449	2530	2653	2437	2185	2519	2622	2623	2763	2869	3010	3113	3213	3314	3409	3493	3561	3656	3729
KA Oil	Import	1.7%	745	815	748	798	876	725	627	791	817	837	846	877	895	944	966	967	980	994	997	1001	1001
	Export	1.7%	745	815	748	798	876	725	627	791	817	837	846	877	895	944	966	967	980	994	997	1001	1001
	Production	3.0%	2269	2413	2449	2531	2652	2437	2184	2520	2622	2622	2763	2870	3011	3113	3213	3314	3409	3494	3561	3656	3729
	Capacity	0.9%	2689	2804	2868	2908	2997	3184	2975	2984	3279	3879	4184	4517	4517	4589	4589	4589	4589	4589	4589	4589	4589
	Utilisation		84%	86%	85%	87%	88%	77%	73%	84%	80%	68%	66%	64%	67%	68%	70%	72%	74%	76%	78%	80%	81%
	Requirement for AA	3.0%	1657	1760	1787	1849	1938	1778	1594	1839	1915	1913	2017	2094	2198	2272	2346	2420	2487	2549	2599	2668	2722
KA Oil	Import	0.5%	173	255	232	255	274	284	254	280	244	270	254	268	261	263	266	265	271	276	272	272	268
	Export	0.5%	173	255	232	255	274	284	253	278	241	266	255	268	261	263	266	265	271	276	272	268	
	Production	3.0%	1657	1760	1787	1848	1938	1778	1593	1837	1912	1910	2018	2095	2198	2272	2346	2420	2487	2549	2598	2667	
	Capacity	0.5%	2182	2213	2247	2323	2328	2456	2383	2312	2522	3169	3545	3736	3737	3738	3739	3740	3741	3742	3742	3742	3742
	Utilisation		76%	80%	80%	80%	83%	72%	67%	79%	76%	60%	57%	56%	59%	61%	63%	65%	66%	68%	69%	71%	73%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

THE AMERICAS 美洲

Fibres	CAGR 2013-2023	CAGR 2013-2023																					
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Textile Filament	0.4%	104	105	92	90	88	84	68	72	67	62	70	71	69	70	69	70	71	72	72	73	73	
Industrial Filament	1.0%	132	144	131	129	137	132	111	136	145	138	142	148	151	152	153	153	153	154	155	156	157	
Carpet Filament	0.2%	406	444	445	418	369	290	240	215	180	164	182	172	172	173	174	175	177	179	181	183	185	
Total Filament	0.5%	642	693	668	637	594	506	419	423	392	364	394	391	392	395	396	398	401	405	408	412	415	
Staple Fibre	0.4%	226	218	185	142	110	66	54	34	32	27	25	25	26	26	26	26	26	26	26	26	26	
Total	0.5%	868	911	853	779	704	572	473	457	424	391	419	416	418	421	422	424	427	431	434	438	441	
Plastics	Requirement	3.0%	301	321	315	316	304	287	221	257	289	298	320	335	375	383	391	395	399	416	423	432	
	Import	-3.6%	39	42	43	41	43	44	34	43	44	47	52	43	46	45	45	45	38	46	36	36	
	Export	6.4%	78	60	54	56	76	128	50	102	101	103	108	171	174	175	168	170	166	159	173	167	
	Production	4.7%	340	339	326	331	337	371	237	316	346	354	376	463	484	505	506	516	520	543	554	598	
	Production	0.8%	10	12	12	10	10	9	9	10	11	12	12	12	13	13	13	13	13	13	13	13	
Polymer 聚合物	Requirement	2.2%	1186	1231	1160	1087	1015	909	745	715	688	733	797	818	838	839	848	855	858	863	876	911	
	Import	4.0%	109	132	127	144	150	132	95	105	103	118	112	137	142	146	150	156	158	161	161	165	
	Export	-1.3%	157	169	237	280	300	320	248	311	329	311	333	302	240	262	236	197	173	168	247	291	
	Production	0.8%	1234	1268	1270	1223	1165	1097	847	951	941	881	954	962	941	954	925	889	872	868	962	1037	
	Capacity	0.9%	1430	1440	1445	1473	1474	1499	1379	1301	1341	1351	1351	1416	1416	1441	1476	1476	1476	1476	1476	1476	
66 Salt	Utilisation	86%	88%	88%	83%	79%	73%	61%	73%	70%	65%	71%	68%	65%	66%	63%	60%	59%	59%	60%	65%	70%	
	Requirement	0.8%	1444	1484	1486	1432	1363	1283	991	1113	1101	1030	1117	1126	1072	1116	1082	1041	1021	1039	1126	1213	
	Import	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	0.8%	1444	1484	1486	1432	1363	1280	988	1113	1101	1030	1117	1126	1072	1116	1082	1041	1021	1039	1126	1213	
HMD	Capacity	0.1%	2060	2060	2070	2070	2070	2070	1850	1690	1690	1690	1690	1690	1690	1690	1700	1710	1710	1710	1710	1710	
	Utilisation	-	70%	72%	72%	69%	66%	62%	53%	66%	65%	61%	66%	67%	63%	66%	64%	61%	60%	59%	61%	66%	
	Requirement for PA66	0.9%	649	667	668	644	613	576	444	501	495	464	502	507	483	503	488	469	459	468	507	547	
	Requirement for Other	2.8%	41	43	44	46	46	43	39	44	45	45	47	49	51	54	55	57	58	60	61	62	
	Total Requirement	1.0%	690	710	712	690	659	619	483	545	540	509	549	556	534	557	543	526	517	516	528	609	
ADN	Import	-0.5%	34	49	37	41	26	26	60	90	78	84	80	76	97	92	86	85	86	87	85	80	
	Export	-1.1%	92	144	145	157	161	130	154	267	251	240	290	271	263	292	294	277	257	248	261	260	
	Production	0.4%	748	805	820	806	794	723	577	721	701	671	755	747	721	752	745	717	689	703	744	789	
	Capacity	0.3%	940	940	951	963	963	853	931	990	972	992	1002	1032	1032	1032	1032	1032	1032	1032	1032	1032	
	Utilisation	-	80%	86%	86%	84%	82%	85%	62%	73%	72%	68%	75%	72%	70%	73%	72%	69%	67%	66%	68%	72%	
Adipic Acid	Requirement	0.4%	710	765	779	765	754	687	548	666	638	717	710	685	715	709	681	654	644	667	706	749	
	Import	-2.1%	88	75	81	88	85	97	54	40	55	26	37	24	29	27	29	29	31	29	31	30	
	Export	-19.8%	111	91	65	116	119	116	130	100	159	163	113	138	116	161	81	38	17	14	17	18	
	Production	-1.3%	733	781	763	793	788	706	624	745	770	775	843	799	794	804	841	733	661	630	652	737	
	Capacity	0.5%	820	850	850	850	850	805	698	870	1133	1153	1173	1218	1228	1228	1238	1238	1238	1238	1238	1238	
KA Oil	Utilisation	-	89%	92%	90%	93%	93%	88%	89%	86%	67%	72%	66%	65%	65%	68%	59%	53%	51%	53%	56%	60%	
	Requirement for HMD	0.8%	808	831	832	801	763	717	553	623	616	577	625	631	600	625	606	583	572	582	631	679	
	Requirement for PA66	2.0%	161	166	163	167	178	146	147	159	171	187	187	192	207	205	210	217	222	230	236	229	
	Requirement for Other	1.1%	969	997	995	968	941	863	700	782	787	764	812	823	807	830	816	800	794	795	812	908	
	Total Requirement	0.1%	96	90	122	109	93	100	106	146	144	145	142	134	134	157	152	148	152	152	150	143	
Polymer 聚合物	Import	-4.8%	148	136	132	167	192	158	126	164	230	270	334	310	303	298	282	280	290	282	260	205	
	Export	-0.3%	1021	1043	1005	1026	1040	922	721	800	874	888	1003	999	976	971	946	932	932	960	977	970	
	Production	0.0%	1160	1160	1156	1166	1176	1131	955	915	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	
	Capacity	-	88%	90%	87%	88%	88%	81%	75%	80%	81%	92%	91%	89%	89%	89%	86%	85%	85%	88%	89%	89%	
	Utilisation	-	746	761	734	749	759	673	527	584	638	649	732	730	713	709	691	680	684	701	713	708	
KA Oil	Requirement for AA	-0.3%	1	1	2	2	3	5	2	2	4	7	7	7	8	8	9	9	9	9	9	7	
	Import	0.0%	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-0.3%	746	761	733	748	757	668	525	582	636	645	725	723	706	701	683	671	671	692	704	701	
	Capacity	0.0%	908	908	908	978	978	904	750	685	779	825	825	825	825	825	825	825	825	825	825	825	
Polymer 聚合物	Utilisation	-	82%	84%	81%	77%	77%	74%	70%	85%	78%	88%	88%	86%	85%	83%	81%	81%	82%	84%	85%	85%	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

NORTH AMERICA 北美

Fibres	CAGR 2013-2023	CAGR 2013-2023																				
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Textile Filament	-0.5%	78	81	70	68	66	57	45	45	42	45	45	44	42	42	41	42	42	43	43	43	43
Industrial Filament	0.7%	109	122	108	114	109	107	89	105	114	115	117	120	122	123	123	123	123	123	124	125	126
Carpet Filament	0.2%	406	444	408	413	369	290	240	215	180	164	182	172	172	173	174	175	177	179	181	183	185
Total Filament	0.3%	593	647	623	589	549	454	374	365	336	324	344	336	336	338	338	340	342	345	348	351	354
Staple Fibre	0.4%	224	217	184	141	109	65	53	33	31	26	24	24	25	25	25	25	25	25	25	25	25
Total	0.3%	817	864	807	730	658	519	427	398	367	350	368	360	361	363	363	365	367	370	373	376	379
Plastics	Requirement	2.5%	269	278	272	267	260	229	198	227	245	253	263	277	290	293	296	298	298	312	317	323
	Import	-7.4%	30	32	35	34	36	35	33	33	36	43	27	30	29	29	29	24	22	30	20	20
	Export	6.5%	74	57	50	53	73	125	47	97	97	99	104	164	167	168	163	159	152	166	160	195
Film	Production	4.7%	313	303	287	286	297	319	262	291	308	314	400	414	429	425	430	433	428	448	457	498
	Requirement	0.8%	10	12	12	10	10	9	10	11	12	12	12	13	13	13	13	13	13	13	13	13
	Requirement	2.0%	1111	1152	1080	999	934	811	614	639	613	610	632	691	705	719	715	721	725	724	730	740
Polymer 聚合物	Import	1.4%	96	119	114	129	132	116	86	85	96	95	106	106	107	107	107	107	107	108	108	109
	Export	-1.5%	146	150	212	240	273	293	282	293	289	312	282	220	242	216	177	150	145	163	224	268
	Production	0.9%	1161	1183	1178	1110	1075	988	835	821	803	849	867	819	854	824	791	768	762	785	856	932
	Capacity	1.0%	1310	1320	1320	1335	1335	1358	1238	1160	1200	1210	1210	1275	1275	1300	1335	1335	1335	1335	1335	1335
	Utilisation	89%	89%	90%	83%	81%	73%	61%	72%	68%	66%	70%	68%	64%	66%	62%	59%	58%	57%	59%	64%	70%
66 Salt	Requirement	0.9%	1358	1384	1378	1299	1258	1156	977	961	939	994	1014	958	999	964	926	899	892	919	1002	1090
	Import	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	0.9%	1358	1384	1378	1299	1258	1153	878	977	961	939	994	1014	958	999	964	926	899	892	919	1002
	Capacity	0.1%	1920	1920	1920	1920	1920	1920	1700	1540	1540	1540	1540	1540	1540	1540	1540	1550	1560	1560	1560	1560
HMD	Utilisation	71%	72%	72%	68%	66%	60%	52%	63%	62%	61%	65%	66%	62%	65%	63%	60%	58%	57%	59%	64%	70%
	Requirement for PA66	0.9%	611	623	620	585	566	519	440	432	423	447	456	431	450	434	417	404	401	414	451	491
	Requirement for Other	2.8%	39	41	42	43	44	41	42	41	43	45	47	49	51	52	54	55	56	57	58	59
	Total Requirement	1.1%	650	664	662	628	610	560	432	482	473	466	492	503	480	501	486	471	459	471	509	550
	Import	-2.2%	19	31	21	18	13	9	43	70	64	62	66	52	63	69	65	61	60	61	59	53
ADN	Export	-1.1%	92	144	145	157	161	130	267	251	240	290	271	263	292	294	277	257	248	262	261	260
	Production	0.6%	723	777	786	767	758	681	679	660	644	716	722	690	724	715	687	656	645	672	711	757
	Capacity	0.3%	903	903	913	923	923	811	889	948	930	950	960	990	990	990	990	990	990	990	990	990
	Utilisation	80%	86%	86%	83%	82%	84%	61%	72%	71%	68%	75%	73%	70%	73%	72%	69%	66%	65%	68%	72%	76%
	Requirement	0.6%	686	738	747	728	720	647	516	645	627	612	680	686	656	688	680	652	623	638	675	719
Adipic Acid	Import	-	64	48	49	51	51	57	-	16	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-19.8%	111	91	65	116	119	116	130	100	159	163	163	113	138	116	161	81	38	17	14	17
	Production	-1.3%	733	781	763	793	788	706	624	745	770	775	843	799	794	804	841	733	661	630	652	692
	Capacity	0.5%	820	850	850	850	850	805	698	870	1133	1153	1173	1218	1228	1228	1238	1238	1238	1238	1238	1238
	Utilisation	89%	92%	92%	93%	93%	88%	88%	89%	86%	68%	67%	72%	66%	65%	65%	68%	59%	53%	51%	53%	56%
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	0.9%	760	775	772	727	704	645	547	538	526	556	568	536	560	540	518	504	500	514	561	610
	Requirement for Other	1.6%	135	137	141	143	147	120	130	143	150	152	155	159	164	167	172	176	178	182	187	178
	Total Requirement	1.1%	895	912	913	870	851	765	677	681	676	708	723	695	724	707	690	680	678	696	748	788
	Import	-0.5%	71	62	95	76	64	71	79	110	107	100	105	97	118	113	108	110	110	110	108	100
KA Oil	Export	-4.7%	137	122	107	153	168	137	99	148	212	256	300	298	288	272	270	280	290	295	255	200
	Production	-0.4%	961	972	925	947	954	831	633	715	786	832	926	926	894	866	852	850	858	881	895	888
	Capacity	0.0%	1085	1085	1071	1071	1081	1036	860	820	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Utilisation	89%	90%	90%	88%	88%	80%	74%	87%	79%	83%	93%	93%	90%	89%	87%	85%	83%	86%	88%	90%	89%
	Requirement for AA	-0.4%	702	709	676	691	696	606	463	522	574	607	676	676	654	652	632	622	620	643	654	648
Polymer 聚合物	Import	0.0%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-0.4%	701	708	675	690	695	605	462	521	573	606	675	675	651	631	621	619	625	642	653	647
	Capacity	0.0%	843	843	843	913	913	839	685	620	714	760	760	760	760	760	760	760	760	760	760	760
	Utilisation	83%	84%	80%	76%	76%	72%	67%	84%	80%	80%	89%	89%	89%	86%	86%	83%	82%	81%	82%	85%	86%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

CANADA 加拿大

	CAGR 2013-2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibres	Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Industrial Filament	1.3%	22	26	29	28	35	37	33	38	41	43	44	45	46	46	46	46	46	47	48	49
	Carpet Filament	-6.2%	89	102	105	89	68	60	55	34	25	38	28	26	24	22	20	20	20	20	20	20
	Total Filament	-1.6%	111	128	134	117	103	97	88	72	66	81	72	71	70	68	66	66	66	67	68	69
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Total	-1.6%	111	128	134	117	103	97	88	72	66	81	72	71	70	68	66	66	66	67	68	69
	Requirement	0.0%	22	25	23	22	25	18	12	14	14	14	14	15	16	15	15	14	14	14	14	14
	Import	-7.6%	11	9	9	7	8	7	5	9	9	11	5	5	5	5	5	5	5	5	5	5
	Export	-	10	12	-	-	-	1	2	3	2	2	-	-	-	-	-	-	-	-	-	-
	Production	6.1%	21	28	14	15	17	12	9	6	7	5	9	10	11	10	10	9	9	9	9	9
Film	Production	0.8%	10	12	12	10	10	9	9	10	11	12	12	13	13	13	13	13	13	13	13	13
	Requirement	-0.8%	142	167	161	143	130	119	107	91	86	99	93	94	94	91	89	88	88	89	90	91
	Import	-3.6%	28	33	39	39	40	34	24	23	27	29	20	20	20	20	20	20	20	20	20	20
	Export	-9.0%	12	12	7	23	28	29	23	46	44	46	15	15	45	40	35	35	35	35	30	18
	Production	-2.6%	126	146	129	127	118	114	106	119	112	116	88	89	119	111	104	103	103	104	100	89
Polymer 聚合物	Capacity	0.0%	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
	Utilisation	79%	91%	91%	81%	79%	74%	71%	66%	70%	68%	73%	55%	56%	74%	69%	65%	64%	64%	65%	63%	56%
	产能利用率																					
	Requirement	-2.6%	147	171	151	149	138	133	124	139	131	126	103	104	139	130	122	121	121	122	117	104
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-2.6%	147	171	151	149	138	133	124	139	131	126	103	104	139	130	122	121	121	122	117	104
	Capacity	0.0%	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Utilisation		74%	86%	76%	75%	69%	67%	62%	70%	66%	63%	52%	52%	70%	65%	61%	61%	61%	61%	59%	52%
	产能利用率																					
ADN	Requirement for PA66	-2.6%	66	77	68	67	62	60	56	63	59	61	46	47	63	59	55	54	54	55	53	47
	Requirement for Other	1.8%	4	5	5	5	5	5	4	7	5	5	6	6	6	6	6	6	6	6	6	6
	Total Requirement	-2.2%	70	82	73	72	67	65	60	70	64	62	52	53	69	65	61	60	60	61	59	53
	Import	-2.2%	19	31	21	18	13	6	40	70	64	62	52	53	69	65	61	60	60	61	59	53
	Export	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Production	-	51	51	52	54	54	60	23	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	0.0%	68	68	68	68	68	68	34	68	(68)	(68)	(68)	(68)	(68)	(68)	(68)	(68)	(68)	(68)	(68)	(68)
	Utilisation		75%	75%	76%	79%	79%	88%	68%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Requirement	-	48	48	49	51	51	57	22	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	48	48	49	51	51	57	22	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	125	125	125	125	125	125	65	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation		74%	83%	42%	70%	76%	51%	40%	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率																					

PA66 Production (ktes) 聚酰胺66产量(千吨)

USA 美国

Fibres	CAGR 2013-2023																					
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	
	0.4%	0.4%	1.4%	1.0%	0.4%	0.9%	2.7%	-7.7%	6.9%	5.0%	-	2.7%	7.7%	-0.6%	1.4%	1.1%	1.4%	0.6%	0.3%	0.6%	-	
	54	87	317	458	224	682	237	17	60	280	934	33	134	1035	1150	1211	1213	1211	70%	545	638	
	49	96	342	487	217	704	242	21	41	262	941	42	138	1037	1160	1213	1227	690	87%	546	690	
	39	75	329	443	141	584	230	25	49	260	876	32	205	1049	1175	1227	1150	677	83%	518	677	
	38	79	301	418	109	527	220	25	59	254	753	41	217	957	1175	1120	1120	669	82%	504	669	
	36	70	230	336	65	401	187	25	120	282	649	39	264	874	1175	1023	590	590	84%	459	590	
	30	56	185	271	53	324	144	20	41	165	471	20	196	647	1078	73%	60%	757	61%	339	494	
	29	69	172	270	33	303	158	21	90	227	502	21	235	716	1000	72%	72%	838	77%	377	645	
	26	76	146	248	31	279	180	21	90	249	479	22	248	709	1040	68%	68%	830	71%	373	627	
	28	74	139	241	26	267	195	24	93	264	478	22	239	695	1050	66%	66%	813	61%	366	612	
	28	74	144	246	24	270	204	29	98	273	488	29	265	733	1050	70%	72%	858	75%	386	680	
	27	77	144	246	24	272	215	20	160	355	554	42	267	779	1115	70%	66%	911	73%	410	686	
	27	77	152	256	25	278	238	22	163	367	567	42	205	730	1115	65%	65%	854	70%	384	656	
	27	77	159	265	25	281	246	22	157	380	580	42	197	713	1140	64%	64%	860	73%	387	688	
	28	77	155	260	25	285	243	22	148	375	579	42	176	687	1175	61%	61%	834	72%	375	680	
	28	77	157	262	25	287	246	17	155	384	592	42	142	735	1175	57%	57%	804	69%	362	652	
	29	77	161	267	25	290	258	15	148	397	591	42	110	659	1175	56%	56%	771	67%	347	613	
	29	77	163	269	25	292	263	13	156	406	595	42	128	681	1175	58%	58%	797	68%	359	638	
	29	77	165	271	25	294	267	13	191	445	604	42	194	756	1175	64%	64%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77	166	271	25	296	267	13	156	445	604	42	194	756	1175	57%	57%	885	72%	398	675	
	29	77																				

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SOUTH AMERICA 南美洲

	CAGR 2013-2023																					
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Fibres	Textile Filament	1.8%	26	24	22	22	27	23	27	25	17	25	27	28	28	28	29	29	29	30	30	
	Industrial Filament	2.2%	23	22	23	26	23	31	31	23	25	28	29	29	30	30	30	31	31	31	31	
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total Filament	2.0%	49	46	45	48	45	52	45	58	56	50	55	56	57	58	58	59	60	60	61	
	Staple Fibre	0.0%	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Total	2.0%	51	47	46	49	46	53	46	59	57	41	51	56	57	59	59	60	61	61	62	62
Plastics	Requirement	5.0%	32	43	43	49	44	58	42	59	62	67	72	79	85	90	95	97	101	104	106	
	Import	5.9%	9	10	8	7	7	9	6	10	11	9	16	16	16	16	16	16	16	16	16	
	Export	5.8%	4	3	4	3	3	3	5	4	4	4	7	7	7	7	7	7	7	7	7	
	Production	4.9%	27	36	39	45	40	52	39	54	55	62	63	70	76	81	86	88	92	95	97	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Polymer 聚合物	Requirement	3.2%	75	79	80	88	81	98	80	106	102	106	113	119	124	127	130	134	133	136	138
Import		12.7%	13	13	15	18	16	15	19	18	22	17	31	36	39	43	49	49	51	53	56	
Export		0.9%	11	19	25	40	27	29	29	36	22	21	20	20	20	20	20	23	23	23	23	
Production		0.0%	73	85	92	113	90	109	94	116	120	78	105	97	100	101	98	104	106	103	105	
Capacity		0.0%	120	120	125	138	139	141	141	141	141	141	141	141	141	141	141	141	141	141	141	
Utilisation		61%	71%	74%	82%	65%	77%	67%	82%	85%	55%	74%	67%	69%	71%	72%	70%	74%	75%	73%	75%	74%
66 Salt	Requirement	0.0%	86	99	107	132	105	128	110	136	141	123	112	114	117	118	115	121	124	120	123	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	0.0%	86	99	107	132	105	128	110	136	141	123	112	114	117	118	115	121	124	120	123	
	Capacity	0.0%	140	140	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
	Utilisation	61%	71%	72%	88%	70%	85%	74%	91%	94%	61%	82%	74%	76%	78%	79%	77%	81%	83%	80%	83%	82%
HMD	Requirement for PA66	0.2%	38	44	48	59	47	57	49	61	63	55	51	52	53	54	52	55	56	54	56	
	Requirement for Other	4.1%	2	2	2	3	2	2	2	4	2	2	2	2	3	3	3	3	3	3	3	
	Total Requirement	0.3%	40	46	50	62	49	59	51	63	67	57	53	54	56	57	55	58	59	57	59	
	Import	4.1%	15	18	16	23	13	17	17	21	26	16	18	23	28	27	25	25	26	26	27	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-2.0%	25	28	34	39	36	42	34	42	41	39	25	31	28	30	30	33	33	31	32	
ADN	Capacity	0.0%	37	37	38	40	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
	Utilisation	68%	76%	89%	98%	90%	100%	81%	100%	98%	64%	93%	60%	74%	67%	71%	71%	79%	79%	74%	79%	76%
	Requirement	-2.1%	24	27	32	37	34	40	32	40	39	37	24	29	27	29	29	31	29	31	30	
	Import	-2.1%	24	27	32	37	34	40	32	40	39	37	24	29	27	29	29	31	29	31	30	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	-0.1%	48	55	60	74	59	72	61	76	79	69	63	64	66	66	65	68	70	68	68	
	Requirement for Other	3.8%	26	29	22	24	32	26	25	29	28	37	35	48	41	43	45	46	47	48	51	
	Total Requirement	1.4%	74	84	82	98	90	98	87	105	107	88	104	100	107	109	110	114	117	116	119	
KA Oil	Import	1.5%	25	28	27	33	29	29	26	36	37	44	37	37	39	39	40	42	42	42	43	
	Export	-7.1%	11	14	25	14	25	21	27	16	18	14	10	5	10	10	10	10	5	5	5	
	Production	0.6%	60	70	80	79	86	91	88	85	88	57	77	80	78	80	80	82	80	79	81	
	Capacity	0.0%	75	75	85	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
	Utilisation	80%	94%	94%	84%	90%	95%	95%	92%	90%	60%	81%	77%	84%	82%	84%	84%	87%	84%	83%	86%	85%
	Requirement for AA	0.6%	44	51	58	58	63	66	64	62	64	56	53	58	57	59	58	60	58	60	59	
66 Salt	Import	0.0%	-	-	1	1	2	4	1	1	3	6	6	6	7	7	8	8	8	8	6	
	Export	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	0.6%	45	52	58	58	62	62	63	61	63	50	47	52	50	52	50	52	49	52	53	
	Capacity	0.0%	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
	Utilisation	69%	80%	90%	89%	95%	96%	97%	94%	97%	59%	77%	73%	81%	76%	79%	77%	80%	77%	76%	80%	82%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ARGENTINA 阿根廷

Fibres	CAGR 2013-2023																	2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Textile Filament	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Industrial Filament	13	11	11	14	11	10	9	13	13	13	13	13	13	13	13	13	13	13
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	15	13	13	16	13	12	11	15	15	15	15	15	15	15	15	15	15	15
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	15	13	13	16	13	12	11	15	15	15	15	15	15	15	15	15	15	15
Plastics	Requirement	4	4	3	8	2	8	3	6	8	9	9	9	11	11	12	11	13
	Import	2	2	1	1	1	2	1	2	3	1	1	1	1	1	1	1	1
	Export	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2
	Production	4	4	4	9	3	8	4	7	8	11	10	10	12	12	13	12	14
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	19	17	17	24	16	19	15	21	22	24	23	23	25	25	25	25	26
	Import	2	2	2	5	2	1	1	4	4	5	1	1	1	1	1	1	1
	Export	10	16	16	25	11	15	17	23	28	14	13	17	17	17	17	20	20
	Production	27	31	31	44	25	33	31	40	46	31	39	39	41	41	41	44	45
	Capacity	45	45	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
66 Salt	Utilisation	60%	69%	62%	88%	50%	66%	62%	80%	92%	70%	78%	78%	82%	82%	82%	88%	90%
	Requirement	32	36	36	51	29	39	36	47	54	36	46	46	48	48	48	51	53
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	32	36	36	51	29	39	36	47	54	36	46	46	48	48	48	51	53
HMD	Capacity	50	50	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Utilisation	63%	73%	60%	86%	49%	64%	60%	78%	90%	60%	76%	76%	80%	80%	80%	86%	88%
	Requirement for PA66	14	16	16	23	13	17	16	21	24	16	21	21	22	22	22	23	24
	Requirement for Other	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-
	Total Requirement	14	16	16	23	13	17	17	21	26	16	21	21	22	22	22	23	24
ADN	Import	14	16	16	23	13	17	17	21	26	16	21	21	22	22	22	23	24
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	18	20	20	29	16	22	20	26	30	23	26	26	27	27	27	29	29
	Requirement for Other	2	3	2	-	8	-	-	4	-	6	6	6	6	6	7	7	8
	Total Requirement	20	23	22	29	24	22	20	30	30	30	32	32	33	33	34	36	37
	Import	20	23	22	29	24	22	20	30	30	30	32	32	33	33	34	36	37
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

BRAZIL 巴西

Fibres	CAGR 2013-2023																					
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Textile Filament	2.0%	22	20	20	20	25	21	25	23	15	23	25	25	26	26	26	27	27	27	28	28	
Industrial Filament	4.1%	10	11	12	12	12	15	18	18	10	12	15	16	16	17	17	17	18	18	18	18	
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Filament	2.8%	33	32	32	32	40	34	43	41	25	35	40	41	42	43	43	44	45	45	46	46	
Staple Fibre	0.0%	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	2.7%	35	34	33	33	41	35	44	42	26	36	41	42	43	44	44	45	46	46	47	47	
Plastics	Requirement	5.2%	28	39	40	41	42	50	39	53	54	63	70	74	79	83	86	89	92	94	96	
	Import	6.5%	7	8	7	6	6	7	5	8	8	15	15	15	15	15	15	15	15	15	15	
	Export	17.5%	2	1	2	1	1	1	2	1	1	5	5	5	5	5	5	5	5	5	5	
	Production	5.4%	23	32	35	36	37	44	35	47	38	51	53	60	64	69	73	76	79	82	84	
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	需求 量	55	62	63	64	65	79	65	80	56	77	83	90	94	99	102	105	109	108	111	112	
Polymer 聚合物	Requirement	3.8%	10	11	11	10	16	15	14	17	15	30	35	38	42	48	48	50	52	52	55	
	进口量	-9.3%	1	3	9	15	16	12	6	8	8	3	3	3	3	3	3	3	3	3	3	
	出口量	-1.5%	46	54	61	69	65	76	63	76	47	56	58	59	60	57	60	62	59	62	60	
	产量	0.0%	75	75	75	88	89	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
66 Salt	Capacity	0.0%	75	75	75	88	89	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
	产能	0.0%	75	75	75	88	89	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
	产能利用率	61%	72%	81%	78%	73%	84%	69%	84%	81%	52%	77%	62%	64%	65%	66%	66%	68%	65%	68%	66%	
	Utilisation	-1.6%	54	63	71	81	76	89	74	89	87	82	66	68	69	70	67	70	73	69	73	
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-1.6%	54	63	71	81	76	89	74	89	87	82	66	68	69	70	67	70	69	73	70	
	Production	0.0%	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
ADN	Capacity	60%	70%	79%	90%	84%	99%	82%	99%	97%	91%	73%	76%	77%	78%	74%	78%	81%	77%	81%	78%	
	Utilisation	-1.4%	24	28	32	36	34	40	33	40	39	30	31	31	32	30	32	33	31	33	32	
	Requirement for PA66	4.1%	2	2	2	3	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	
	Requirement for Other	-1.1%	26	30	34	39	36	42	34	42	41	32	33	34	35	33	35	36	34	36	35	
Adipic Acid	Total Requirement	-	1	2	-	-	-	-	-	-	-	7	2	6	5	3	2	3	3	3	3	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-2.0%	25	28	34	39	36	42	34	42	41	25	31	28	30	30	33	33	31	33	32	
	Production	0.0%	37	37	38	40	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
KA Oil	Capacity	68%	76%	89%	98%	90%	100%	81%	100%	98%	64%	93%	74%	67%	71%	71%	79%	79%	74%	79%	76%	
	Utilisation	-2.1%	24	27	32	37	34	40	32	40	39	24	29	27	29	29	31	31	29	31	30	
	Requirement for HMD	-2.0%	24	27	32	37	34	40	32	40	39	24	29	27	29	29	31	31	29	31	30	
	Requirement for Other	0.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polymer 聚合物	Total Requirement	-11.2%	2	2	3	1	3	2	3	4	7	2	2	2	2	2	2	2	2	2	2	
	Import	-7.1%	11	14	25	14	25	21	16	18	14	10	10	5	10	10	10	5	5	5	5	
	Export	0.6%	60	70	80	79	86	91	88	88	57	73	80	78	80	80	82	80	79	82	81	
	Production	0.0%	75	75	85	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
Adipic Acid	Capacity	80%	94%	94%	84%	90%	95%	92%	90%	93%	60%	81%	84%	82%	84%	84%	87%	84%	83%	86%	85%	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for HMD	-1.6%	30	35	40	45	43	50	41	50	49	46	37	38	39	38	39	41	39	41	39	
	Requirement for PA66	3.7%	21	23	18	21	20	22	21	22	25	26	28	39	31	33	34	35	37	38	39	
KA Oil	Total Requirement	0.7%	51	58	66	63	72	62	72	74	57	73	65	70	72	72	74	77	76	79	78	
	Import	-11.2%	2	2	3	1	3	2	3	4	14	7	2	2	2	2	2	2	2	2	2	
	Export	-7.1%	11	14	25	14	25	21	16	18	14	10	10	5	10	10	10	5	5	5	5	
	Production	0.6%	60	70	80	79	86	91	88	88	57	73	80	78	80	80	82	80	79	82	81	
Polymer 聚合物	Capacity	0.0%	75	75	85	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
	产能	0.0%	75	75	85	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
	产能利用率	69%	80%	90%	89%	95%	96%	97%	94%	97%	59%	77%	73%	81%	76%	79%	80%	77%	76%	80%	82%	
	Utilisation	0.6%	44	51	58	58	63	66	64	62	64	56	53	58	57	59	58	60	57	60	59	
Adipic Acid	Requirement for AA	0.0%	-	-	1	1	2	4	1	1	3	6	6	7	7	8	8	8	8	8	6	
	Import	0.0%	-	-	1	1	2	4	1	1	3	6	6	7	7	8	8	8	8	8	6	
	Export	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	0.6%	45	52	58	58	62	62	63	61	63	50	47	52	50	52	50	52	49	52	53	
Polymer 聚合物	Capacity	0.0%	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
	产能	0.0%	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
	产能利用率	69%	80%	90%	89%	95%	96%	97%	94%	97%	59%	77%	73%	81%	76%	79%	80%	77%	76%	80%	82%	
	Utilisation	0.0%	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

CHILE 智利

Fibres	CAGR 2013-2023																2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Textile Filament	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	需求	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	进口	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	出口	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产量	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
	Import	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

COLOMBIA 哥伦比亚

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	需求量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	进出口量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	出口量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	产量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	7.2%	1	1	1	1	1	1	1	1	1	1	1	1	2
	Total Requirement	7.2%	1	1	1	1	1	1	1	1	1	1	1	1	2
	Import	7.2%	1	1	1	1	1	1	1	1	1	1	1	1	2
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ECUADOR 厄瓜多尔

	CAGR 2013-2023																					
Fibres	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement

PA66 Production (ktes) 聚酰胺66产量 (千吨)

PERU 秘鲁

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

URUGUAY 乌拉圭

Fibres	CAGR 2013-2023														2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

VENEZUELA 委内瑞拉

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

GREATER EUROPE 大欧洲地区

		CAGR 2013-2023																					
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Fibres	Textile Filament	0.3%	193	185	167	175	163	147	127	133	136	118	117	119	122	122	123	123	122	122	122	121	
	Industrial Filament	-0.1%	110	120	128	133	121	109	84	103	108	102	96	94	94	94	94	94	94	95	95	95	
	Carpet Filament	1.3%	44	44	43	44	46	39	30	24	7	8	7	8	8	8	8	8	8	8	8	8	
	Total Filament	0.2%	347	349	338	352	330	295	241	260	251	228	220	221	224	224	225	225	224	225	225	224	
	Staple Fibre	-0.5%	60	61	56	56	53	47	39	35	24	22	20	20	19	19	19	19	19	19	19	19	
	Total	0.1%	407	410	394	408	383	342	280	295	275	250	240	241	243	243	244	244	244	243	244	244	243
Plastics	Requirement	2.8%	346	358	359	385	372	385	368	386	382	370	370	382	402	419	432	445	454	466	475	490	
	Import	0.8%	166	168	135	182	192	187	193	189	188	189	185	185	187	190	190	189	193	195	197	204	
	Export	-3.0%	120	139	127	169	171	138	136	157	168	170	167	115	117	120	121	122	123	123	123	123	
	Production	1.6%	300	329	350	372	351	336	291	332	366	364	348	300	312	332	350	365	375	382	393	408	
	Production	3.4%	3	3	3	3	4	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	
	Requirement	0.7%	675	702	702	736	694	640	540	588	573	546	522	487	500	516	530	540	549	554	550	554	
Polymer	Import	1.3%	343	343	328	357	425	355	300	353	336	339	316	331	346	347	351	353	354	354	361	385	
	Export	2.3%	449	501	476	530	616	483	318	368	406	406	439	482	489	499	509	495	496	496	491	512	
	Production	1.6%	781	860	850	909	885	768	612	656	626	604	589	610	652	659	682	698	695	689	684	689	
	Capacity	0.0%	1058	1071	1071	1071	1066	1061	885	825	817	820	870	870	870	870	870	870	870	870	870	870	
	Utilisation	74%	80%	79%	85%	83%	72%	69%	77%	77%	74%	68%	70%	75%	76%	78%	80%	79%	80%	80%	79%	79%	
	产能利用率																						
66 Salt	Requirement	1.5%	414	460	458	485	476	412	329	348	332	319	313	323	345	349	362	369	367	367	362	365	
	Requirement for Other	1.8%	64	72	77	81	89	87	70	80	87	91	95	97	98	100	102	104	106	107	109	113	
	Total Requirement	1.6%	478	532	535	566	565	499	399	428	419	410	408	420	443	449	464	473	472	474	472	478	
	Import	1.9%	211	333	326	356	370	331	304	332	310	364	391	412	414	428	432	433	436	438	434	437	
	Export	1.4%	216	304	280	312	320	345	299	271	287	289	311	361	383	368	366	367	372	377	375	357	
	Production	1.1%	483	502	489	522	515	502	394	367	396	388	355	390	414	403	402	408	411	416	412	398	
ADN	Capacity	1.2%	580	580	585	585	585	585	465	465	465	470	480	490	500	510	510	520	530	530	530	530	
	Utilisation	83%	87%	84%	89%	88%	86%	75%	79%	85%	84%	76%	81%	85%	81%	79%	80%	79%	78%	78%	78%	75%	
	Requirement	1.1%	459	477	465	495	490	477	375	348	376	369	337	371	394	383	382	388	391	392	391	378	
	Import	0.0%	149	170	77	143	152	177	122	132	102	96	113	119	138	114	112	112	111	110	111	113	
	Export	1.8%	170	203	143	182	190	220	116	184	128	65	125	145	150	150	150	150	150	150	150	150	
	Production	1.7%	480	510	532	534	528	520	369	400	402	338	349	396	406	419	420	426	428	434	431	429	
Adipic Acid	Capacity	0.0%	580	602	602	602	602	610	520	520	520	520	520	520	520	520	520	520	520	520	520	520	
	Utilisation	83%	85%	88%	89%	88%	85%	71%	77%	77%	65%	67%	76%	78%	81%	81%	82%	82%	83%	83%	83%	80%	
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	1.5%	516	571	570	602	593	513	411	433	413	398	389	401	429	433	449	458	454	457	455	449	
	Requirement for Other	3.5%	294	292	307	326	330	315	312	355	361	366	375	402	418	433	448	463	475	491	503	515	
	Total Requirement	2.5%	810	863	877	928	923	828	723	788	774	764	764	803	847	866	897	921	929	948	958	964	
KA Oil	Import	1.9%	335	358	322	345	341	298	273	379	433	443	473	484	491	505	506	513	522	523	526	534	
	Export	1.3%	410	485	454	448	489	454	412	387	420	317	329	361	426	416	401	401	381	371	361	361	
	Production	2.4%	885	990	1009	1032	1071	983	805	821	766	750	638	659	723	801	808	816	817	807	799	809	
	Capacity	0.6%	1074	1119	1119	1144	1197	1223	1017	951	951	896	879	879	879	951	951	951	951	951	951	951	
	Utilisation	82%	88%	90%	90%	89%	80%	79%	86%	81%	79%	71%	75%	82%	84%	85%	86%	86%	85%	85%	84%	85%	
	Requirement for AA	2.4%	646	723	736	754	783	718	588	599	559	547	466	481	528	584	590	597	596	588	588	583	
Polymer	Import	1.0%	99	168	154	161	166	176	162	132	159	149	149	149	149	154	149	159	164	164	164	164	
	Export	1.9%	128	191	171	189	184	199	144	189	129	145	129	142	137	144	149	147	152	165	161	155	
	Production	2.7%	675	745	753	782	800	740	587	626	557	534	445	474	516	579	585	589	589	585	580	581	
	Capacity	0.0%	861	871	869	869	869	869	776	684	684	684	684	684	684	684	684	684	684	684	684	684	
Polymer	Utilisation	78%	86%	87%	90%	92%	85%	76%	91%	81%	78%	65%	69%	75%	85%	86%	87%	86%	86%	85%	85%	85%	
	产能利用率																						

PA66 Production (ktes) 聚酰胺66产量 (千吨)

WEST EUROPE 西欧

Fibres	CAGR 2013-2023	CAGR 2013-2023																				2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Textile Filament	0.0%	146	141	122	130	118	106	87	90	91	69	64	64	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65

PA66 Production (ktes) 聚酰胺66产量 (千吨)

BELGIUM 比利时

[illegible]

PA66 Production (ktes) 聚酰胺66产量 (千吨)

DENMARK 丹麦

Fibres	CAGR 2013-2023																2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	
Plastics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3.1%	-	-	-	-	-	3	2	-	1	-	3	2	-	1	3	4
	-4.0%	-	-	-	-	-	2	-	-	-	-	2	-	-	-	2	2
	7.8%	-	-	-	-	-	1	1	1	1	-	1	1	1	1	1	2
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

FINLAND 芬兰

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total												
Plastics	Requirement	-2.8%	2	2	2	2	4	3	3	4	4	4	5	5	5	5	3	3
	Import	-4.0%	2	2	2	2	3	2	2	3	3	3	2	2	2	2	2	2
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	0.0%	-	-	-	-	1	1	1	1	1	1	3	3	3	3	1	1
Film	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	0.0%	-	-	-	-	1	1	1	1	1	1	2	2	2	2	1	1
	Import	0.0%	-	-	-	-	1	1	1	1	1	1	2	2	2	2	1	1
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
产能利用率																		
66 Salt	Requirement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Total Requirement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	7.2%	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2
	Total Requirement	7.2%	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2
	Import	8.1%	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	2
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

FRANCE 法国

Fibres	CAGR 2013-2023																	2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Textile Filament	-	20	20	20	19	17	14	12	10	8	4	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	10	9	8	8	8	5	5	4	3	1	-	-	-	-	-	-	-
Total Filament	-	30	29	28	27	25	19	17	14	11	5	-	-	-	-	-	-	-
Staple Fibre	-0.6%	29	30	27	28	26	22	18	19	18	17	16	16	15	15	15	15	15
Total	-0.6%	59	59	55	55	51	41	35	33	29	22	16	16	15	15	15	15	15
Plastics	Requirement	0.5%	76	75	71	68	57	52	40	41	40	38	38	37	38	40	40	40
	Import	-2.2%	27	22	23	30	38	35	20	33	26	25	20	20	20	20	20	20
Export	0.4%	41	48	43	71	67	61	55	56	53	53	53	55	55	55	55	55	55
	Production	1.3%	90	101	91	109	86	78	73	61	67	66	73	72	73	75	76	75
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	0.6%	137	146	133	149	125	108	86	77	75	68	73	71	72	74	75	72
	Import	-4.0%	40	45	43	49	54	45	28	43	37	45	30	30	30	30	30	30
	Export	6.5%	31	43	49	63	67	58	39	61	53	56	85	90	95	100	109	105
	Production	6.4%	128	144	139	163	138	121	109	104	85	79	128	131	137	144	153	147
	Capacity	0.0%	177	182	182	177	177	177	181	181	181	181	181	181	181	181	181	181
	Utilisation	-	72%	79%	76%	90%	78%	68%	57%	47%	51%	44%	71%	72%	76%	80%	85%	81%
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	需求	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	6.4%	150	168	163	191	161	142	128	99	108	92	150	153	160	168	179	172
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export	-4.2%	108	111	161	158	171	132	155	151	149	136	73	50	53	53	52	50	48
	Production	2.9%	258	279	324	349	273	282	273	371	371	166	200	206	243	220	229	220
Capacity	0.0%	325	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371
	Utilisation	-	79%	75%	87%	94%	90%	74%	76%	67%	66%	45%	54%	56%	57%	59%	62%	59%
HMD	Requirement for PA66	2.9%	116	126	146	157	150	123	127	112	110	75	90	93	96	99	103	99
	Requirement for Other	1.8%	19	19	19	17	20	18	16	17	20	21	21	21	22	22	22	24
Total Requirement	2.6%	135	145	165	174	170	141	143	140	131	130	96	111	114	118	121	125	123
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export	1.0%	133	125	128	120	96	108	125	109	160	159	143	156	158	167	165	167	175
	Production	1.7%	268	269	292	294	265	249	268	291	289	238	267	271	285	286	292	295
Capacity	1.8%	295	295	295	295	295	295	295	295	295	295	300	310	320	330	340	340	360
	Utilisation	-	91%	91%	95%	100%	90%	85%	91%	84%	98%	79%	86%	85%	86%	84%	86%	83%
ADN	Requirement	1.7%	254	256	278	279	252	237	255	236	276	226	253	258	271	272	278	286
	Import	0.0%	6	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Export	1.8%	170	203	143	182	190	220	116	166	128	65	125	145	150	150	150	150	150
	Production	1.7%	418	449	419	459	440	455	369	400	402	349	396	406	419	420	426	434
Capacity	0.0%	450	472	472	472	472	520	520	520	520	520	520	520	520	520	520	520	520
	Utilisation	-	93%	95%	89%	97%	93%	87%	71%	77%	65%	67%	76%	78%	81%	81%	82%	83%
Adipic Acid	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	2.9%	145	156	181	195	186	153	158	139	137	93	112	116	119	123	128	124
Requirement for Other	1.8%	9	9	11	9	7	6	8	9	9	9	10	10	10	11	11	11	12
	Total Requirement	2.8%	154	165	192	204	193	159	166	148	146	103	122	126	130	134	139	135
Import	1.7%	20	17	18	20	25	17	15	30	36	30	21	25	25	25	25	25	25
	Export	3.7%	68	131	109	104	145	137	136	83	101	127	125	145	165	165	165	165
Production	3.4%	202	279	283	288	313	279	283	287	215	213	197	222	246	270	274	279	275
	Capacity	0.0%	290	290	290	290	320	320	320	320	320	320	320	320	320	320	320	320
	Utilisation	-	70%	96%	98%	99%	98%	87%	90%	67%	76%	61%	69%	77%	85%	86%	87%	86%
KA Oil	Requirement for AA	3.4%	147	204	207	210	229	204	210	155	177	144	162	179	197	200	204	201
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export	2.9%	29	53	43	50	26	51	49	78	17	29	27	26	25	32	37	43	59
	Production	3.3%	176	257	250	260	255	255	235	172	206	171	188	204	229	237	247	244
Capacity	0.0%	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265
	Utilisation	-	66%	97%	94%	98%	96%	96%	98%	89%	78%	64%	71%	77%	87%	90%	93%	99%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

GERMANY 德国

Fibres	CAGR 2013-2023	CAGR 2013-2023																				
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Textile Filament	-0.9%	52	47	41	42	39	37	34	37	36	16	12	12	12	11	11	11	11	11	11	11	11
Industrial Filament	-2.0%	36	36	35	35	33	32	24	27	27	24	22	21	20	20	20	19	19	19	19	18	18
Carpet Filament	4.1%	34	35	35	36	36	32	23	18	1	2	2	3	3	3	3	3	3	3	3	3	3
Total Filament	-1.2%	122	118	111	113	108	101	81	82	64	42	36	36	35	34	34	33	33	33	33	33	32
Staple Fibre	0.0%	30	30	29	28	27	25	21	16	6	5	4	4	4	4	4	4	4	4	4	4	4
Total	-1.0%	152	148	140	141	135	126	102	98	70	47	40	40	39	38	38	37	37	37	37	37	36
Plastics	Requirement	1.5%	110	115	118	116	120	125	95	133	139	142	124	124	130	133	136	136	140	145	149	152
	Import	-3.8%	41	35	25	36	45	36	31	43	35	42	47	46	38	33	32	30	31	28	34	32
	Export	-7.9%	27	31	33	34	35	31	38	45	59	59	26	27	27	27	27	27	26	26	26	26
	Production	0.2%	96	111	126	114	110	120	102	135	163	159	143	104	107	119	127	131	133	143	141	146
Film	Production	3.4%	3	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	7
Polymer 聚合物	Requirement	-0.3%	240	248	253	244	235	235	195	204	177	158	128	130	138	145	147	149	150	152	151	154
	Import	-1.3%	155	134	120	123	126	146	89	90	127	121	114	109	112	118	111	108	105	100	100	100
	Export	0.8%	177	184	166	176	184	186	99	150	185	185	177	210	207	212	213	206	205	205	200	200
	Production	1.0%	262	298	299	297	293	275	205	279	262	241	229	196	227	246	252	252	255	257	251	254
	Capacity	0.0%	332	332	332	332	322	317	297	302	309	312	312	312	312	312	312	312	312	312	312	312
	Utilisation	79%	90%	90%	89%	91%	87%	69%	92%	85%	77%	73%	63%	73%	73%	79%	81%	80%	82%	82%	80%	81%
	产能利用率																					
	产能																					
66 Salt	Requirement	1.0%	307	349	350	347	343	322	326	307	282	268	229	267	266	288	295	293	298	301	294	297
	Import	-0.8%	62	62	62	62	62	62	55	65	65	65	60	60	60	60	60	60	60	60	60	60
	Export	4.8%	27	35	30	28	29	21	37	33	40	44	10	14	11	12	14	15	16	16	16	16
	Production	1.7%	272	322	318	313	310	281	299	282	261	213	183	218	217	240	249	248	254	257	250	253
	Capacity	1.0%	330	330	330	330	330	330	340	350	370	370	370	380	390	400	400	400	410	410	410	410
	Utilisation	82%	98%	96%	95%	94%	85%	83%	78%	71%	58%	49%	57%	56%	60%	62%	62%	62%	62%	63%	61%	62%
	Requirement for PA66	1.7%	122	145	143	141	140	126	135	127	117	96	82	98	98	108	112	112	114	116	113	114
	Requirement for Other	1.2%	30	38	43	47	51	49	47	51	53	55	57	57	58	58	59	59	60	60	61	62
HMD	Total Requirement	1.5%	152	183	186	188	191	175	182	178	170	151	139	155	156	166	171	171	174	176	174	176
	Import	1.5%	152	183	186	188	191	175	182	178	170	151	139	155	156	166	171	171	174	176	174	176
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	1.8%	152	180	178	175	174	157	167	158	146	119	102	122	122	134	139	139	142	144	140	142
	Requirement for Other	3.0%	115	118	124	135	142	135	121	128	135	143	148	152	157	161	166	171	176	181	187	192
	Total Requirement	2.5%	267	298	302	310	316	292	245	293	285	262	250	274	279	295	305	310	318	325	327	334
	Import	0.7%	73	87	62	57	59	59	19	47	50	65	70	70	70	70	70	70	70	70	70	70
	Export	-0.3%	188	180	155	140	185	195	200	230	180	197	165	165	215	205	200	200	180	170	160	160
KA Oil	Production	1.6%	382	391	395	393	442	428	478	424	405	362	345	369	423	430	435	440	428	425	417	425
	Capacity	1.2%	390	400	400	425	445	471	474	478	478	423	406	406	478	478	478	478	478	478	478	478
	Utilisation	98%	98%	99%	92%	99%	91%	90%	100%	89%	85%	86%	85%	91%	88%	90%	91%	92%	90%	89%	87%	89%
	Requirement for AA	1.6%	279	285	288	287	323	312	311	349	310	296	252	269	309	314	318	321	312	310	304	310
	Import	1.0%	98	125	125	145	165	175	145	162	130	155	145	145	145	150	145	155	160	160	160	160
	Export	8.3%	11	50	40	51	48	60	14	23	24	28	24	24	24	24	16	21	18	18	18	31
	Production	3.1%	192	210	203	193	206	197	180	210	204	169	135	148	188	188	189	187	170	168	162	181
	Capacity	0.0%	200	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
Utilisation		96%	100%	97%	92%	98%	94%	86%	100%	97%	80%	63%	64%	70%	90%	90%	90%	89%	81%	80%	77%	86%

PA66 Production (ktes) 聚酰胺66产量
(千吨)

GREECE 希腊

Fibres	CAGR 2013-2023														2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	-	1	1	1	1	1	1	1	1	1	1	1	1	1
	Total Requirement	-	1	1	1	1	1	1	1	1	1	1	1	1	1
	Import	-	1	1	1	1	1	1	1	1	1	1	1	1	1
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

IRELAND 爱尔兰

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023		
Plastics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4.1%	2	1	2	3	1	1	1	2	2	2	2	2	3	3	3	3	
	4.1%	2	1	2	3	1	1	1	2	2	2	2	2	3	3	3	3	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polymer 聚合物	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ITALY 意大利

	CAGR 2013-2023																				
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibres	Textile Filament	-0.3%	38	39	39	49	46	40	27	30	32	32	33	33	33	33	33	33	33	33	32
	Industrial Filament	9.6%	-	-	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5
	Carpet Filament	0.0%	-	-	-	2	2	2	2	2	3	5	5	5	5	5	5	5	5	5	5
	Total Filament	0.5%	38	39	40	50	49	43	30	33	37	39	40	41	41	41	42	42	42	42	42
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Total	0.5%	38	39	40	50	49	43	30	33	37	39	40	41	41	42	42	42	42	42	42
	Requirement	2.5%	31	28	29	52	51	46	31	36	41	39	39	40	41	42	43	44	44	45	45
	Import	4.4%	31	34	15	37	35	31	12	13	13	13	18	18	20	20	20	20	20	20	20
	Export	-2.8%	18	26	26	37	43	16	15	16	16	16	10	10	12	12	12	12	12	12	12
	Production	-0.3%	18	20	40	52	59	31	34	39	44	42	38	31	32	34	35	36	36	37	37
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	0.1%	54	57	75	95	100	70	60	67	72	73	65	67	68	68	70	71	70	71	71
	Import	13.6%	5	5	11	21	17	14	15	16	14	14	18	20	22	27	30	30	30	30	30
	Export	6.9%	35	35	35	40	52	45	22	18	16	12	15	15	15	15	15	14	14	14	14
	Production	-2.7%	84	87	99	114	135	101	67	69	74	71	74	62	61	56	55	55	54	55	55
	Capacity	0.0%	125	125	125	135	135	135	110	90	90	90	90	90	90	90	90	90	90	90	90
	Utilisation	67%	70%	79%	91%	100%	75%	61%	77%	82%	79%	82%	69%	69%	68%	62%	61%	61%	60%	61%	62%
	产能利用率																				
66 Salt	Requirement	-2.7%	98	102	116	133	158	118	78	81	87	83	73	73	71	66	64	64	63	64	66
	Import	-	46	43	75	77	84	44	-	1	1	1	-	-	-	-	-	-	-	-	-
	Export	-	2	4	6	6	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-2.6%	54	63	47	62	76	76	78	80	86	82	86	73	71	66	64	64	63	64	66
	Capacity	0.0%	180	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
HMD	Utilisation	30%	63%	47%	62%	76%	76%	78%	80%	86%	82%	73%	73%	71%	66%	64%	64%	64%	63%	64%	66%
	Requirement for PA66	-2.6%	24	28	21	28	34	34	35	36	39	37	33	33	32	30	29	29	28	29	30
	Requirement for Other	4.1%	3	3	3	4	4	4	-	3	4	4	4	4	4	5	5	5	5	5	6
	Total Requirement	-1.8%	27	31	24	32	38	38	35	39	43	41	43	37	36	35	34	34	33	34	36
	Import	-4.0%	1	1	1	1	1	1	2	2	1	2	3	1	1	2	1	1	2	2	2
ADN	Export	0.0%	-	4	6	6	6	4	5	6	2	2	2	2	2	2	2	2	2	2	2
	Production	-1.5%	26	34	29	37	43	41	38	43	44	41	42	38	37	35	35	34	33	34	36
	Capacity	0.0%	40	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
	Utilisation	65%	85%	64%	82%	96%	91%	84%	96%	98%	91%	93%	84%	84%	82%	78%	78%	76%	73%	76%	80%
	Requirement	-1.5%	25	32	28	35	41	39	36	41	42	39	40	36	35	33	33	33	31	32	34
Adipic Acid	Import	-1.6%	25	32	28	35	41	39	36	41	42	39	40	36	35	33	33	32	31	32	34
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-2.6%	30	35	26	35	43	43	44	45	48	46	48	41	40	37	36	36	35	36	37
	Requirement for Other	3.5%	78	82	87	93	98	83	97	105	107	111	115	119	127	132	136	141	151	156	162
	Total Requirement	2.0%	108	117	113	128	141	126	141	155	155	157	163	160	167	169	172	177	186	192	199
	Import	1.4%	81	77	73	80	78	63	73	73	99	96	105	100	100	105	100	105	110	110	115
	Export	-	45	30	30	30	15	15	5	29	15	25	25	15	10	10	-	-	-	-	-
	Production	0.1%	72	70	70	78	78	78	73	74	71	85	78	75	77	74	72	72	76	77	79
Polymer 聚合物	Capacity	0.0%	85	85	85	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
	Utilisation	85%	82%	82%	92%	89%	89%	83%	85%	81%	81%	97%	89%	90%	88%	84%	82%	82%	86%	88%	89%
	Requirement for AA	0.0%	53	51	51	57	57	57	54	54	52	62	57	54	56	54	53	52	55	56	57
	Import	0.0%	-	-	1	1	-	-	-	-	2	4	4	4	4	4	4	4	4	4	4
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Production	0.0%	53	51	50	56	57	57	54	54	50	58	53	50	52	50	49	48	51	52	53
	Capacity	0.0%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Utilisation	88%	85%	83%	93%	95%	95%	90%	90%	83%	83%	97%	88%	83%	90%	87%	82%	80%	85%	87%	88%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

MALTA 马耳他

Fibres	CAGR 2013-2023														2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total									
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

NETHERLANDS 荷兰

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement	
Plastics	7.2%	4	5	5	3	2	1	1	1	1	1	1	2	1	3	4	2	4
	0.0%	4	5	5	4	2	8	5	6	4	4	4	4	1	3	4	2	4
	-	13	9	-	2	-	7	4	5	3	3	3	3	-	-	-	4	4
	-	13	9	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	-	11	8	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
	-	19	40	34	41	79	15	6	5	6	6	6	6	-	-	-	-	-
	-0.1%	92	102	100	119	126	64	86	85	86	86	86	86	-	85	85	85	85
	0.5%	84	70	66	79	47	49	80	80	80	80	81	85	85	85	85	85	85
	0.0%	93	90	90	90	90	90	90	89	90	90	90	90	90	94	94	94	94
66 Salt	93%	78%	73%	73%	88%	52%	54%	89%	89%	89%	89%	90%	94%	94%	94%	94%	94%	94%
	0.4%	98	82	77	92	55	57	94	94	94	94	95	99	99	99	99	99	99
	-	98	82	77	92	55	57	94	94	94	94	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.4%	-	-	-	-	-	-	-	-	-	-	95	99	99	99	99	99	99
HMD	0.0%	-	-	-	-	-	-	-	-	-	-	110	110	110	110	110	110	110
	-	-	-	-	-	-	-	-	-	-	-	86%	90%	90%	90%	90%	90%	90%
	0.5%	-	-	-	-	-	-	-	-	-	-	43	45	45	45	45	45	45
	0.0%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0.4%	1	1	1	1	1	1	1	1	1	1	44	46	46	46	46	46	46
ADN	0.4%	1	1	1	1	1	1	1	1	1	1	44	46	46	46	46	46	46
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16.0%	7	8	7	5	11	7	12	17	18	16	53	55	55	55	55	55	55
	2.9%	7	8	7	5	11	7	12	17	18	16	5	19	20	20	20	21	22
KA Oil	1.5%	12	13	12	10	13	8	15	28	43	64	58	74	75	77	75	76	77
	-12.6%	5	5	5	5	2	1	4	11	26	48	11	3	3	3	3	3	3
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SPAIN

西班牙

	CAGR 2013-2023																						
Fibres	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Capacity	Utilisation	Requirement	Import	Export	Production	Capacity	Utilisation
	1.0%	-	-	1.0%	-	1.0%	3.6%	2.9%	-4.0%	2.8%	-	3.6%	2.9%	-	-	0.0%	78%	-0.7%	-	-	-	-	-
	16	-	-	16	-	16	27	7	-	20	-	27	12	2	17	40	78	36	-	-	-	-	-
	16	-	-	16	-	16	27	12	2	17	-	27	12	2	17	40	70	33	-	-	-	-	-
	16	-	-	16	-	16	26	11	2	17	-	26	11	2	17	40	63	29	-	-	-	-	-
	16	-	-	16	-	16	25	12	2	15	-	25	12	2	15	40	63	29	-	-	-	-	-
	16	-	-	16	-	16	20	3	2	19	-	20	3	2	19	55	58	26	1	-	-	-	-
	16	-	-	16	-	16	30	8	1	23	-	30	8	1	23	70	68	35	2	-	-	-	-
	15	-	-	15	-	15	22	7	2	20	-	22	7	2	20	40	82	42	1	-	-	-	-
	13	-	-	13	-	13	23	6	3	18	-	23	6	3	18	98	88	46	2	-	-	-	-
	15	-	-	15	-	15	20	6	3	17	-	19	6	3	17	95	84	44	2	-	-	-	-
	17	-	-	17	-	17	19	7	3	15	-	19	7	3	15	90	80	42	-	-	-	-	-
	19	-	-	19	-	19	20	8	2	16	-	20	8	2	16	93	86	43	-	-	-	-	-
	21	-	-	21	-	21	26	8	2	20	-	26	8	2	20	90	84	43	-	-	-	-	-
	21	-	-	21	-	21	37	8	2	28	-	37	8	2	28	86	86	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	85	85	36	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	90	86	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25	93	93	37	-	-	-	-	-
	21	-	-	21	-	21	30	8	2	25	-	30	8	2	25								

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SWEDEN 瑞典

Fibres	CAGR 2013-2023																2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	
Plastics	3.4%	5.8%	18.6%	13.9%	-	-	3	2	1	2	-	2	2	1	2	-	-
	-	-	-	-	-	-	3	2	1	2	-	2	2	1	2	-	-
	-	-	-	-	-	-	3	2	1	2	-	2	2	1	2	-	-
	-	-	-	-	-	-	3	2	1	2	-	2	2	1	2	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	14.9%	14.9%	-	-	-	-	2	2	2	2	-	2	2	2	2	-	-
	-	-	-	-	-	-	2	2	2	2	-	2	2	2	2	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	Utilisation	产能	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	Import	Export	Production	Capacity	Utilisation	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement for PA66	Requirement for Other	Total Requirement	Import	Export	Production	Capacity	Utilisation	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	Import	Export	Production	Capacity	Utilisation	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for HMD	Requirement for PA66	Requirement for Other	Total Requirement	Import	Export	Production	Capacity	Utilisation	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	Import	Export	Production	Capacity	Utilisation	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SWITZERLAND 瑞士

Fibres	CAGR 2013-2023																	2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	1.6%	11	10	9	9	8	8	6	7	8	6	6	6	6	6	6	6	7
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	1.6%	11	10	9	9	8	8	6	7	8	6	6	6	6	6	6	6	7
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1.6%	11	10	9	9	8	8	6	7	8	6	6	6	6	6	6	6	7
Plastics	Requirement	1	2	2	3	3	3	3	4	4	5	5	5	6	6	6	7	9
	Import	1	1	1	1	1	1	1	3	3	2	2	2	1	1	1	1	1
	Export	4	4	4	4	4	4	4	5	5	5	5	2	2	2	2	2	2
	Production	4	5	5	6	6	6	6	6	6	8	8	6	7	7	7	8	10
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	15	14	13	14	13	13	11	12	13	12	12	11	12	12	12	12	15
	Import	7	7	8	7	6	6	5	8	8	7	7	12	13	13	13	14	15
	Export	3	3	4	3	2	1	1	2	2	2	2	1	1	1	1	1	1
	Production	11	10	9	10	9	8	7	6	7	7	7	-	-	-	-	-	-
	Capacity	15	15	15	15	15	15	15	15	15	15	-	-	-	-	-	-	-
66 Salt	Utilisation	73%	67%	60%	67%	60%	53%	47%	40%	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	13	12	11	12	11	9	8	7	8	8	-	-	-	-	-	-
	Import	-	13	12	11	12	11	9	8	7	8	8	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	4.1%	3	3	3	4	4	4	6	7	8	8	8	9	9	10	10	12
ADN	Total Requirement	4.1%	3	3	3	4	4	4	6	7	8	8	8	9	9	10	10	12
	Import	-	3	3	3	3	4	4	6	7	8	8	8	9	9	10	10	12
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	2.4%	8	8	8	10	10	9	10	10	11	11	11	12	12	12	13	14
	Total Requirement	2.4%	8	8	8	10	10	9	10	10	11	11	11	12	12	12	13	14
KA Oil	Import	2.3%	8	8	8	10	10	9	10	10	11	11	11	12	12	12	13	14
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

UNITED KINGDOM 英国

Fibres	CAGR 2013-2023																						
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Textile Filament	-	20	19	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Industrial Filament	0.6%	10	12	14	14	12	12	10	17	19	19	17	19	19	18	18	18	18	18	18	18	18	
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Filament	0.6%	30	31	20	18	12	12	10	17	19	19	17	19	19	18	18	18	18	18	18	18	18	
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	0.6%	30	31	20	18	12	12	10	17	19	19	17	19	19	18	18	18	18	18	18	18	18	
Plastics	Requirement	1.9%	34	33	32	31	28	26	19	18	19	19	18	18	18	18	20	20	22	22	22	23	
	Import	3.2%	11	12	10	11	17	15	15	14	14	11	15	15	15	15	15	15	15	15	15	15	
	Export	-6.7%	5	6	5	5	6	5	5	9	11	12	10	5	5	5	5	5	5	5	5	5	
	Production	-3.2%	28	27	27	25	17	16	9	13	15	17	18	8	8	8	10	10	12	12	12	13	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Film	Requirement	-1.0%	54	55	43	40	27	26	18	31	33	31	26	26	25	25	26	26	28	27	27	28	
	Import	-1.0%	34	21	16	16	16	15	11	28	31	33	31	26	26	25	26	26	28	27	27	28	
	Export	-	87	107	96	100	139	87	25	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	107	141	123	124	150	98	32	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	180	180	180	180	180	180	45	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polymer 聚合物	Utilisation	59%	78%	68%	69%	83%	54%	71%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement	-	125	165	144	145	176	115	37	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	98	82	77	92	55	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
66 Salt	Production	-	223	243	218	237	231	172	37	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	310	310	310	310	310	310	155	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	72%	78%	70%	76%	75%	55%	24%	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	-	100	109	98	107	104	77	17	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for Other	0.0%	6	6	6	7	7	7	3	2	2	2	3	3	3	3	3	3	3	3	3	3	
HMD	Total Requirement	0.0%	106	115	104	114	111	84	20	2	2	3	3	3	3	3	3	3	3	3	3	3	
	Import	10.3%	-	6	8	18	3	8	2	-	1	3	8	8	8	8	8	8	8	8	8	8	
	Export	1.4%	83	90	72	95	99	136	70	73	60	57	75	90	110	86	86	86	86	86	86	86	
	Production	0.8%	189	199	168	191	207	212	88	75	61	58	75	85	105	81	81	81	81	81	81	81	
	Capacity	0.0%	245	245	245	245	245	245	185	125	125	125	125	125	125	125	125	125	125	125	125	125	
ADN	Utilisation	77%	81%	69%	78%	84%	87%	48%	60%	49%	46%	60%	68%	84%	65%	65%	65%	65%	65%	65%	65%	65%	
	Requirement	0.8%	180	189	160	181	197	201	84	71	58	55	71	81	100	77	77	77	77	77	77	77	
	Import	0.8%	118	128	47	106	109	136	84	71	58	55	71	81	100	77	77	77	77	77	77	77	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	62	61	113	75	88	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Adipic Acid	Capacity	-	130	130	130	130	130	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	48%	47%	87%	58%	68%	72%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	-	125	136	122	133	129	96	21	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for Other	1.2%	19	16	12	12	6	4	5	12	9	7	8	8	8	8	8	9	9	9	9	9	
KA Oil	Total Requirement	1.2%	144	152	134	145	135	100	26	12	9	7	8	8	8	8	8	9	9	9	9	9	
	Import	0.1%	16	30	21	28	35	4	14	12	13	9	9	8	8	8	8	9	9	9	9	9	
	Export	-	53	68	97	106	80	70	-	-	4	2	1	-	-	-	-	-	-	-	-	-	
	Production	-	181	190	210	223	181	167	12	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	235	270	270	270	270	270	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
Adipic Acid	Utilisation	77%	70%	78%	83%	67%	62%	17%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for AA	-	132	139	153	163	132	122	9	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	1	43	28	15	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	131	96	125	148	153	121	9	-	-	-	-	-	-	-	-	-	-	-	-	-	
KA Oil	Capacity	-	185	185	185	185	185	185	92	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	71%	52%	68%	80%	83%	65%	10%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

EAST EUROPE 东欧

	CAGR 2013-2023																
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Fibres	Textile Filament	20	18	18	16	15	13	15	17	19	19	20	22	22	22	22	2023
	Industrial Filament	39	43	47	53	47	41	44	45	45	45	45	45	46	46	46	21
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
	Total Filament	59	61	65	69	62	54	59	62	64	64	65	67	68	68	68	67
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
	Total	59	61	65	69	62	54	47	59	62	64	65	67	68	68	67	67
Plastics	Requirement	26	32	33	41	45	54	40	61	70	69	71	74	79	84	94	115
	Import	21	23	20	24	26	28	20	40	47	44	46	38	39	39	44	51
	Export	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	54
	Production	5	9	13	17	19	26	20	22	24	27	36	40	45	46	50	61
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	65	70	77	85	80	78	66	83	87	87	95	101	106	106	108	114
	Import	38	45	47	51	56	53	49	64	66	72	77	83	87	88	89	96
	Export	-	-	-	-	5	5	3	6	6	7	6	6	6	6	6	6
	Production	27	25	30	34	29	30	20	21	23	22	24	24	25	24	25	24
	Capacity	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	Utilisation	66%	61%	73%	83%	71%	73%	49%	56%	54%	54%	59%	59%	61%	59%	61%	59%
	产能利用率																
	产能利用率																
66 Salt	Requirement	32	30	35	40	34	35	23	25	27	26	28	28	29	28	29	28
	Import	4	4	6	12	7	6	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	28	26	29	28	27	29	23	25	27	26	28	28	29	28	29	28
	Capacity	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
	Utilisation	80%	74%	83%	80%	77%	83%	66%	71%	77%	74%	80%	80%	83%	80%	83%	80%
HMD	Requirement for PA66	13	12	13	13	12	13	10	11	12	12	13	13	13	13	13	13
	Requirement for Other	-	-	-	-	-	1	1	2	1	1	1	1	1	1	1	1
	Total Requirement	13	12	13	13	12	14	11	13	13	13	14	14	14	14	14	14
	Import	13	12	13	13	12	14	11	13	13	13	14	14	14	14	14	14
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	16	15	16	16	15	16	13	14	15	15	16	16	16	16	16	16
	Requirement for Other	3.2%	19	22	24	17	17	20	23	24	29	35	37	39	40	41	43
	Total Requirement	35	34	38	40	32	33	33	37	39	44	50	53	55	56	57	59
KA Oil	Import	35	35	40	41	32	33	33	40	39	45	51	53	55	56	57	59
	Export	48	61	53	51	57	31	6	55	58	18	2	18	30	30	30	30
	Production	40.5%	48	60	51	57	31	6	53	58	17	1	18	30	30	30	30
	Capacity	74	74	74	74	74	74	65	65	65	65	65	65	65	65	65	65
	Utilisation	65%	81%	69%	68%	77%	42%	9%	82%	89%	26%	28%	46%	46%	46%	46%	46%
	产能利用率																
KA Oil	Requirement for AA	35	44	37	37	42	23	4	39	42	12	13	22	22	22	22	22
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	35	44	37	37	42	23	4	39	42	12	13	22	22	22	22	22
	Capacity	61	61	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	Utilisation	57%	72%	63%	62%	71%	38%	7%	66%	72%	21%	22%	37%	37%	37%	37%	37%

PA66 Production (ktes) PA66产量 (千吨)

BELARUS 白俄罗斯

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	需求总量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	进口量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	出口量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

		BULGARIA 保加利亚															
Fibres		CAGR 2013-2023														2022	2023
		Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Requirement	Import	Export	Production		
Plastics		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

CROATIA 克罗地亚

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	1	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Total Requirement	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

CZECH 捷克

Fibres	CAGR 2013-2023																2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	
Plastics	Requirement	4.1%					20	18	17	16	16	16	16	17	15	14	24
	Import	4.6%					18	16	15	14	14	14	14	15	13	12	21
	Export						-	-	-	-	-	-	-	-	-	-	23
	Production	0.0%					2	2	2	2	2	2	2	2	2	2	22
Film	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	0.0%					2	2	2	2	2	2	2	2	2	2	2
	Import	0.0%					2	2	2	2	2	2	2	2	2	2	2
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity						-	-	-	-	-	-	-	-	-	-	-
	Utilisation						-	-	-	-	-	-	-	-	-	-	-
	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement						-	-	-	-	-	-	-	-	-	-	-
	Import						-	-	-	-	-	-	-	-	-	-	-
	Export						-	-	-	-	-	-	-	-	-	-	-
	Production						-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ESTONIA 爱沙尼亚

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

GEORGIA 格鲁吉亚

Fibres	CAGR 2013-2023																2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

		LATVIA 拉脱维亚															
Fibres		CAGR 2013-2023															
		2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fibres	Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

LITHUANIA 立陶宛

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total												
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

POLAND 波兰

	CAGR 2013-2023																					
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	
Fibres	Textile Filament	-4.0%	2	2	2	1	1	1	2	3	3	3	3	3	3	3	3	2	2	2	2	
	Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total Filament	-4.0%	2	2	2	1	1	1	2	3	3	3	3	3	3	3	3	2	2	2	2	
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Plastics	Total	-4.0%	2	2	2	1	1	1	2	3	3	3	3	3	3	3	3	2	2	2	2	
	Requirement	5.8%	2	3	3	5	6	8	9	10	11	12	13	15	17	18	18	19	19	20	21	
	Import	-4.0%	2	2	2	2	2	3	2	5	6	6	4	4	4	4	4	4	4	4	4	
	Export	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	
	Production	9.3%	-	1	1	3	4	5	7	6	6	7	9	11	13	14	14	15	15	16	17	
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement	5.2%	2	3	3	4	4	5	7	6	7	9	10	12	13	14	14	15	14	14	15	
	Import	4.1%	2	3	3	4	4	5	7	7	8	10	10	12	13	14	14	15	14	14	15	
	Export	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polymer 聚合物	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
66 Salt	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ADN	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for Other	4.1%	2	2	1	2	2	2	2	2	3	4	4	4	4	5	5	5	6	6	6	
KA Oil	Total Requirement	4.1%	2	2	1	2	2	2	2	3	4	4	4	4	5	5	5	5	6	6	6	
	Import	2.0%	2	2	2	2	2	2	3	5	5	4	4	4	5	5	5	5	6	6	6	
	Export	-	-	1	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Capacity	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Utilisation	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ROMANIA
罗马尼亚[illegible]

PA66 Production (ktes) 聚酰胺66产量 (千吨)

RUSSIA 俄罗斯

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement	
Plastics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-14.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SERBIA 塞尔维亚

Fibres	CAGR 2013-2023														2023
	2023	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SLOVAKIA 斯洛伐克

Fibres	CAGR 2013-2023																	2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	0.0%	2	4	5	5	4	3	2	3	3	3	3	3	3	3	3	3	3
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	0.0%	2	4	5	5	4	3	2	3	3	3	3	3	3	3	3	3	3
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	0.0%	2	4	5	5	4	3	2	3	3	3	3	3	3	3	3	3	3
Plastics	Requirement	2	1	1	2	3	3	2	7	8	7	9	9	9	10	11	11	13
	Import	0.0%	1	1	1	2	2	2	3	6	4	2	2	2	2	2	2	2
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	6.2%	1	-	1	1	1	-	4	2	3	6	7	7	8	9	9	11
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	3.2%	3	4	5	6	5	4	6	5	5	8	9	9	9	10	10	11
	Export	3.2%	3	4	5	6	5	4	6	5	5	8	9	9	9	10	10	11
Polymer 聚合物	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SLOVENIA 斯洛文尼亚

	CAGR 2013-2023																	
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Fibres	Textile Filament	-	4	3	4	4	5	6	7	7	7	7	8	10	10	10	10	2023
	Industrial Filament	3.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2022
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2021
	Total Filament	3.6%	4	3	4	4	5	6	7	7	7	7	8	10	10	10	10	2020
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2019
Plastics	Total	3.6%	4	3	4	4	5	6	7	7	7	7	8	10	10	10	10	2018
	Requirement	3.4%	2	4	4	4	2	4	3	5	4	5	5	6	6	6	6	2017
	Import	-	-	-	-	-	-	-	1	1	1	2	-	-	-	-	-	2016
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2015
	Production	8.8%	2	4	4	4	2	4	3	4	3	3	5	6	6	6	6	2014
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2013
	Requirement	5.2%	6	6	7	7	9	9	11	10	9	9	12	15	15	15	15	2012
	Import	5.2%	6	6	7	7	9	9	11	10	9	9	12	15	15	15	15	2011
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2010
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2009
Polymer 聚合物	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2008
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2007
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2006
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2005
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2004
66 Salt	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2003
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2002
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2001
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2000
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1999
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1998
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1997
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1996
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1995
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1994
ADN	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1993
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1992
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1991
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1990
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1989
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1988
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1987
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1986
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1985
	Requirement for Other	5.8%	9	6	7	5	3	3	3	4	3	4	4	5	5	5	6	1984
KA Oil	Total Requirement	5.8%	9	6	7	5	3	3	3	4	3	4	4	5	5	5	6	1983
	Import	7.0%	9	6	7	5	3	3	3	4	3	4	4	5	5	5	6	1982
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1981
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1980
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1979
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1978
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1977
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1976
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1975
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1974
KA Oil	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1973
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1972
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1971
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1970
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1969
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1968
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1967
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1966
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1965
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1964
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1963
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1962
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1961
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1960
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1959

PA66 Production (ktes) 聚酰胺66产量 (千吨)

TURKEY 土耳其

		CAGR 2013-2023																					
		2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibres	Textile Filament	0.0%	14	13	12	11	9	7	6	7	8	9	9	9	9	9	9	9	9	9	9	9	9
	Industrial Filament	0.2%	34	36	38	39	38	35	32	41	41	41	41	41	41	42	42	42	42	42	42	42	42
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Filament	0.2%	48	49	50	50	47	42	38	48	49	50	50	50	50	51	51	51	51	51	51	51	51
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Total	0.2%	48	49	50	50	47	42	38	48	49	50	50	50	51	51	51	51	51	51	51	51	51
	Requirement	6.4%	5	5	6	7	8	13	7	11	14	12	13	14	16	17	17	19	20	20	21	21	23
	Import	4.1%	5	3	1	2	1	2	1	7	8	7	8	9	10	10	12	12	12	12	12	12	12
	Export	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	Production	7.5%	0	2	5	5	7	11	6	4	6	6	5	4	4	6	5	7	8	8	9	9	11
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	0.9%	49	52	55	55	54	52	44	52	55	56	55	54	57	56	57	58	58	59	59	59	60
	Import	0.7%	25	30	30	31	36	32	27	36	37	40	39	36	38	38	38	40	40	42	42	42	42
	Export	0.0%	-	-	-	-	5	5	3	5	5	6	6	6	6	6	6	6	6	6	6	6	6
	Production	0.9%	24	22	25	24	23	25	20	21	23	22	22	24	24	25	24	25	24	24	23	23	24
	Capacity	0.0%	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	Utilisation	92%	92%	85%	96%	92%	88%	96%	77%	81%	88%	85%	85%	92%	92%	96%	92%	96%	92%	92%	88%	88%	92%
	产能利用率																						
	66 Salt	0.7%	28	26	29	28	27	29	23	25	27	26	26	28	28	29	28	29	28	28	27	27	28
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	0.7%	28	26	29	28	27	29	23	25	27	26	26	28	28	29	28	29	28	27	27	27	28
	Capacity	0.0%	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
	Utilisation	80%	74%	83%	80%	77%	83%	66%	71%	77%	74%	74%	80%	83%	80%	80%	80%	83%	80%	77%	77%	80%	80%
	Requirement for PA66	0.8%	13	12	13	13	12	13	10	11	12	12	12	13	13	13	13	13	13	12	12	12	13
	Requirement for Other	0.0%	-	-	-	-	-	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
	Total Requirement	0.7%	13	12	13	13	12	14	11	13	13	13	13	14	14	14	14	14	14	13	13	13	14
ADN	Import	0.7%	13	12	13	13	12	14	11	13	13	13	13	14	14	14	14	14	14	13	13	13	14
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	0.6%	16	15	16	16	15	16	13	14	15	15	15	16	16	16	16	16	16	15	15	15	16
	Requirement for Other	1.9%	5	8	12	13	8	10	12	14	13	18	24	25	26	26	26	27	27	28	28	29	29
Adipic Acid	Total Requirement	1.4%	21	23	28	29	23	26	25	28	28	33	39	41	41	42	42	43	43	44	43	44	45
	Import	1.4%	21	23	28	29	23	26	25	28	28	33	39	41	41	42	42	43	43	44	43	44	45
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

UKRAINE 乌克兰

Fibres	CAGR 2013-2023																	2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	3	3	4	9	5	3	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	3	3	4	9	5	3	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3	3	4	9	5	3	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	11.6%	2	3	2	3	1	1	1	1	1	1	1	1	2	2	2	3
	Import	11.6%	1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	3
Film	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	3	5	10	6	5	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	3	5	10	6	5	-	-	-	-	-	-	-	-	-	-	-
	Capacity	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	Utilisation	20%	20%	33%	67%	40%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
66 Salt	Requirement	-	4	6	12	7	6	-	-	-	-	-	-	-	-	-	-	-
	Import	-	4	6	12	7	6	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	40.5%	48	60	51	50	31	6	53	58	17	1	18	30	30	30	30	30
HMD	Production	40.5%	48	60	51	50	31	6	53	58	17	1	18	30	30	30	30	30
	Capacity	0.0%	63	63	65	65	65	65	65	65	65	65	65	65	65	65	65	65
ADN	Utilisation	76%	95%	78%	77%	88%	48%	9%	82%	89%	26%	2%	28%	46%	46%	46%	46%	46%
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Export	40.5%	48	60	51	50	31	6	53	58	17	1	18	30	30	30	30	30
	Production	40.5%	48	60	51	50	31	6	53	58	17	1	18	30	30	30	30	30
KA Oil	Capacity	0.0%	63	63	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	Utilisation	70%	88%	74%	73%	83%	45%	9%	77%	85%	25%	1%	26%	44%	44%	44%	44%	44%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

UZBEKISTAN 乌兹别克斯坦

Fibres	CAGR 2013-2023														2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total									
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

AFRICA/MIDDLE EAST 非洲、中东

Fibres	CAGR 2013-2023	CAGR 2013-2023																				
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		2020	2021	2022
Textile Filament	0.6%	27	26	27	29	30	28	27	28	28	30	34	35	35	35	36	36	36	36	36	36	36
Industrial Filament	-12.9%	13	19	22	21	20	15	9	7	7	6	4	1	1	1	1	1	1	1	1	1	1
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-0.3%	40	45	49	50	50	43	36	35	35	36	38	36	36	36	37	37	37	37	37	37	37
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-0.3%	40	45	49	50	50	43	36	35	35	36	38	36	36	36	37	37	37	37	37	37	37
Plastics	Requirement	8.1%	13	15	16	17	15	15	20	19	14	13	13	15	15	17	19	20	21	24	26	28
	Import	1.6%	6	6	6	6	6	5	7	7	7	6	4	4	5	5	6	6	6	7	7	7
	Export	-0.9%	9	10	11	11	11	10	12	12	12	11	10	10	10	10	10	10	10	10	10	10
	Production	5.6%	16	19	21	22	20	24	20	25	24	19	18	19	21	20	23	24	25	27	29	31
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Requirement	1.4%	55	62	67	69	68	64	57	55	51	53	52	53	53	55	56	57	58	58	60	61
	Import	7.6%	16	15	17	18	18	10	13	12	12	12	12	14	13	14	15	15	18	18	24	25
	Export	11.4%	8	10	10	12	12	12	14	14	14	17	40	45	50	50	50	50	50	50	50	50
	Production	4.0%	47	57	60	63	62	58	56	58	57	53	58	80	85	90	91	91	89	90	86	86
	Capacity	0.0%	58	66	66	66	66	66	66	66	66	66	116	116	116	116	116	116	116	116	116	116
66 Salt	Utilisation	81%	86%	91%	95%	94%	88%	85%	88%	86%	80%	50%	69%	73%	78%	78%	78%	77%	78%	74%	74%	74%
	Requirement	4.0%	55	66	71	74	73	68	65	67	66	62	67	93	105	107	107	107	105	105	100	100
	Import	-	4	12	16	16	16	16	16	16	15	7	3	0	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	4.6%	50	55	55	58	57	52	50	51	51	54	64	93	105	107	107	107	105	105	100	100
HMD	Capacity	0.0%	60	60	60	60	60	66	66	66	66	124	124	124	124	124	124	124	124	124	124	124
	Utilisation	84%	91%	91%	97%	95%	79%	76%	77%	77%	82%	52%	75%	80%	85%	86%	86%	84%	85%	81%	81%	81%
	Requirement for PA66	4.6%	23	25	25	26	26	23	22	23	23	24	29	42	45	47	48	48	47	47	45	45
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	4.6%	23	25	26	26	26	23	22	23	23	24	29	42	45	47	48	48	47	47	45	45
ADN	Import	4.6%	23	25	25	26	26	23	23	23	24	29	42	45	47	48	48	48	47	47	45	45
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	4.6%	28	31	31	33	32	29	28	29	30	36	52	55	59	60	60	59	59	56	56	56
	Requirement for Other	4.8%	4	5	8	11	11	12	13	15	16	17	17	18	20	21	23	24	24	24	24	24
	Total Requirement	4.7%	32	36	36	41	43	41	41	44	45	47	51	69	73	79	81	83	83	80	80	80
	Import	4.6%	32	36	36	41	43	41	41	43	44	47	51	69	73	79	81	83	83	83	80	80
KA Oil	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

EGYPT 埃及

Fibres	CAGR 2013-2023																2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Film	Requirement	Import	Export	Production	Requirement	
Plastics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

ISRAEL
以色列

Fibres	CAGR 2013-2023																
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Textile Filament	0.6%	25	26	27	29	30	28	27	28	28	30	34	35	35	36	36	36
Industrial Filament	0.0%	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	0.6%	25	26	27	29	30	28	27	28	28	31	35	36	36	37	37	37
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	0.6%	25	26	27	29	30	28	27	28	28	31	35	36	36	37	37	37
Plastics	Requirement	4	4	4	4	4	4	4	4	5	5	5	5	5	6	6	7
	Import	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
	Export	8	9	10	10	10	10	10	11	11	11	10	10	10	10	10	10
	Production	11	12	13	13	13	13	13	13	14	14	14	14	14	15	15	16
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	35	37	39	41	42	40	39	40	40	43	47	48	48	49	49	50
Polymer 聚合物	Import	-	-	2	3	5	7	8	9	9	9	8	8	8	8	8	8
	Export	8	10	10	12	12	12	12	13	13	13	8	5	5	5	5	5
	Production	43	47	47	50	49	45	43	44	44	47	47	45	45	46	46	45
	Capacity	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
66 Salt	Utilisation	86%	93%	93%	99%	97%	89%	85%	87%	87%	93%	93%	89%	89%	93%	93%	81%
	Requirement	50	55	55	58	57	52	50	51	51	54	55	52	52	54	54	52
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Production	50	55	55	58	57	52	50	51	51	54	55	52	52	54	54	52
	Capacity	60	60	60	60	60	66	66	66	66	66	66	66	66	66	66	66
	Utilisation	84%	91%	91%	97%	95%	79%	76%	77%	77%	82%	83%	79%	79%	82%	79%	72%
	Requirement for PA66	23	25	25	26	26	23	22	23	23	24	25	24	24	24	24	21
ADN	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	23	25	25	26	26	23	22	23	23	24	25	24	24	24	24	21
	Import	23	25	25	26	26	23	22	23	23	24	25	24	24	24	24	21
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for PA66	28	31	31	33	32	29	28	29	29	30	31	29	29	30	29	27
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	28	31	31	33	32	29	28	29	29	30	31	29	29	30	29	27
	Import	28	31	31	33	32	29	28	29	29	30	31	29	29	30	29	27
Polymer 聚合物	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SAUDI ARABIA 沙特阿拉伯

Fibres	CAGR 2013-2023																	2023
	2013	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	18.9%	-	-	-	-	-	-	-	-	-	8	35	40	45	45	45	45
	Production	18.9%	-	-	-	-	-	-	-	-	-	8	35	40	45	45	45	45
	Capacity	0.0%	-	-	-	-	-	-	-	-	-	50	50	50	50	50	50	50
	Utilisation	-	-	-	-	-	-	-	-	-	-	16%	70%	80%	90%	90%	90%	90%
	产能利用率	-	-	-	-	-	-	-	-	-	-	16%	70%	80%	90%	90%	90%	90%
66 Salt	Requirement	18.9%	-	-	-	-	-	-	-	-	-	9	41	47	53	53	53	53
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	18.9%	-	-	-	-	-	-	-	-	-	9	41	47	53	53	53	53
	Capacity	0.0%	-	-	-	-	-	-	-	-	-	58	58	58	58	58	58	58
	Utilisation	-	-	-	-	-	-	-	-	-	-	16%	71%	81%	91%	91%	91%	91%
	产能利用率	-	-	-	-	-	-	-	-	-	-	16%	71%	81%	91%	91%	91%	91%
HMD	Requirement for PA66	18.9%	-	-	-	-	-	-	-	-	-	4	18	21	24	24	24	24
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	18.9%	-	-	-	-	-	-	-	-	-	4	18	21	24	24	24	24
	Import	18.9%	-	-	-	-	-	-	-	-	-	4	18	21	24	24	24	24
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	18.9%	-	-	-	-	-	-	-	-	-	5	23	26	29	29	29	29
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	18.9%	-	-	-	-	-	-	-	-	-	5	23	26	29	29	29	29
	Import	18.9%	-	-	-	-	-	-	-	-	-	5	23	26	29	29	29	29
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) ^P聚酰胺66(产量 (千吨))

SOUTH AFRICA 南非

Fibres	CAGR 2013-2023																	2023		
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		2020	2021
	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	11	11	11	11	10	7	1	-	-	-	-	-	-	-	-	-	-	-	-
	-	13	11	11	11	10	7	1	-	-	-	-	-	-	-	-	-	-	-	-
	-	13	11	11	11	10	7	1	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	2.9%	4	6	6	4	6	2	4	5	6	6	7	6	6	7	7	7	7	8
	Import	-6.7%	2	2	2	2	1	1	2	2	2	1	1	1	1	1	1	1	1	1
	Export	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	5.8%	3	5	5	3	5	1	4	2	3	4	5	6	5	5	6	6	6	7
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	5.2%	16	15	15	13	11	2	3	2	3	4	5	4	4	5	5	5	5	5
	Import	5.2%	16	15	15	13	11	2	3	2	3	4	5	4	4	5	5	5	5	5
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 化合物	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KA Oil	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	7.2%	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2
	Total Requirement	7.2%	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2
	Import	3.6%	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2
Polymer 化合物	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 化合物	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SYRIA 叙利亚

Fibres	CAGR 2013-2023														2023
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	5.8%	1	2	3	5	6	7	8	9	10	8	9	10	14
	Total Requirement	5.8%	1	2	3	5	6	7	8	9	10	8	9	10	14
	Import	5.8%	1	2	3	5	6	7	8	9	10	8	9	10	14
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

CHINA中国

	CAGR 2013-2023																					
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
Fibres	Textile Filament	4.5%	24	25	32	34	33	34	20	24	38	47	43	49	56	59	61	63	65	67	70	73
	Industrial Filament	4.5%	67	71	81	100	112	115	81	136	142	126	149	157	164	170	178	187	197	208	219	231
	Carpet Filament	14.9%	2	2	1	1	1	1	2	3	3	5	6	7	9	10	12	12	13	15	18	20
	Total Filament	4.9%	93	98	114	135	146	150	103	163	183	201	206	217	229	239	251	262	275	290	307	324
	Staple Fibre	1.5%	7	7	9	10	10	10	7	11	16	13	19	14	15	16	17	18	19	20	21	22
	Total	4.6%	100	105	123	145	156	160	110	174	199	272	220	220	232	245	255	268	280	294	310	328
Plastics	Requirement	3.7%	45	67	109	172	198	189	247	308	323	324	336	368	376	392	408	429	440	451	460	465
	Import	2.1%	27	35	36	47	58	65	77	91	93	94	112	111	111	102	105	96	88	92	89	116
	Export	5.2%	2	2	2	3	2	3	5	6	3	3	5	5	5	5	5	5	5	5	5	5
	Production	4.3%	20	34	75	128	142	136	117	162	218	233	229	262	270	295	308	338	357	364	376	354
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement需求 量	4.3%	119	136	189	257	280	279	315	373	323	406	403	441	461	490	514	549	578	589	617	618
	Import进口 量	-2.7%	28	35	92	136	159	167	98	137	133	164	176	135	145	120	85	45	50	75	125	125
	Export出口 量	9.3%	-	3	2	5	22	22	24	38	42	48	50	55	65	70	80	95	110	125	135	105
	Production产量	7.7%	91	104	99	126	143	134	138	216	282	285	277	361	381	440	509	599	638	639	627	598
	Capacity产能	7.4%	142	142	151	209	240	287	287	372	372	372	392	472	632	662	662	662	762	762	762	762
	Utilisation产能利用率	64%	73%	66%	60%	60%	47%	48%	75%	76%	76%	77%	71%	76%	60%	66%	77%	90%	84%	84%	82%	78%
	Requirement	7.7%	106	122	116	147	167	157	161	253	330	323	324	422	446	515	596	701	746	748	734	700
	Import	0.0%	8	13	24	13	21	12	15	4	4	4	4	4	4	4	4	4	4	4	4	4
66 Salt	Export	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	Production	7.8%	98	109	92	134	146	145	249	326	329	320	418	442	511	592	697	742	744	730	696	
	Capacity	7.2%	105	125	200	200	200	200	350	420	470	470	542	734	770	770	820	940	940	940	940	
	Utilisation	93%	87%	87%	67%	73%	73%	73%	71%	78%	70%	68%	77%	60%	66%	77%	85%	79%	79%	78%	78%	74%
	Requirement for PA66	7.8%	44	49	41	60	66	65	112	147	148	144	188	199	230	266	314	334	335	329	313	
	Requirement for Other	4.3%	2	3	13	12	24	19	21	26	32	36	38	40	42	44	46	48	50	51	53	55
	Total Requirement	7.2%	46	52	54	72	90	84	87	138	179	184	228	241	274	312	362	384	386	382	368	
	Import	-	-	1	1	15	19	13	20	42	42	39	35	25	15	5	-	-	-	-	-	-
HMD	Export	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	15	25	35	25	25	
	Production	10.5%	46	52	53	71	76	65	74	118	137	145	147	203	226	269	327	387	419	411	407	
	Capacity	9.8%	55	55	55	110	110	110	110	165	165	205	205	420	420	420	520	520	520	520	520	
	Utilisation	84%	95%	96%	65%	69%	59%	59%	72%	83%	71%	72%	48%	54%	64%	64%	63%	74%	81%	79%	78%	
	Requirement	10.5%	44	49	50	67	72	62	70	112	130	138	140	193	215	256	311	368	398	390	387	
	Import	-15.7%	44	49	50	67	72	62	70	112	130	138	115	121	125	170	90	45	25	25	25	
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Production	-	-	-	-	-	-	-	-	-	-	-	25	72	90	86	221	323	373	365	362	
ADN	Capacity	82.1%	-	-	-	-	-	-	-	-	1	1	101	101	100	100	400	400	400	400	400	
	Utilisation	-	-	-	-	-	-	-	-	-	0%	0%	25%	72%	90%	86%	55%	81%	93%	91%	91%	
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement for PA66	7.8%	55	61	52	75	82	81	139	183	184	179	234	248	286	332	390	416	417	409	390	
	Requirement for Other	4.8%	149	181	245	246	397	356	415	514	588	629	667	707	746	783	821	859	893	932	970	
	Total Requirement	5.5%	204	242	297	321	479	437	581	697	736	813	846	941	994	1069	1153	1249	1309	1349	1379	
	Import	0.1%	133	174	142	182	278	162	68	76	25	20	20	25	25	25	25	25	25	25	25	
	Export	12.8%	2	2	3	2	3	2	9	31	38	46	104	128	131	120	168	186	189	218	231	
Adipic Acid	Production	6.8%	73	70	158	141	204	277	422	544	659	748	892	1052	1089	1212	1314	1413	1502	1555	1639	
	Capacity	1.7%	134	154	214	214	235	442	615	720	835	1435	1905	2255	2255	2255	2255	2255	2255	2255	2255	
	Utilisation	54%	45%	74%	66%	87%	63%	69%	76%	79%	79%	47%	42%	47%	48%	54%	58%	63%	67%	69%	73%	
	Requirement for AA	6.7%	53	51	115	103	149	202	308	397	481	546	651	696	768	885	959	1031	1096	1135	1196	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-0.9%	1	1	1	1	1	1	1	1	7	10	34	38	39	37	38	39	31	31	31	
	Production	6.5%	54	52	116	104	150	203	309	488	556	685	734	807	834	922	997	1070	1127	1166	1227	
	Capacity	1.0%	144	165	201	207	212	415	589	791	1392	1863	2054	2055	2056	2057	2058	2059	2060	2060	2060	
KA Oil	Utilisation	38%	32%	58%	50%	71%	49%	49%	52%	62%	40%	37%	36%	39%	41%	45%	48%	52%	55%	57%	60%	
	Requirement for AA	6.7%	53	51	115	103	149	202	308	397	481	546	651	696	768	885	959	1031	1096	1135	1196	
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Export	-0.9%	1	1	1	1	1	1	1	1	7	10	34	38	39	37	38	39	31	31	31	
	Production	6.5%	54	52	116	104	150	203	309	488	556	685	734	807	834	922	997	1070	1127	1166	1227	
	Capacity	1.0%	144	165	201	207	212	415	589	791	1392	1863	2054	2055	2056	2057	2058	2059	2060	2060	2060	
	Utilisation	38%	32%	58%	50%	71%	49%	49%	52%	62%	40%	37%	36%	39%	41%	45%	48%	52%	55%	57%	60%	
	Requirement for AA	6.7%	53	51	115	103	149	202	308	397	481	546	651	696	768	885	959	1031	1096	1135	1196	

PA66 Production (ktes) 聚酰胺66产量 (千吨))

GREATER ASIA (ex-CHINA) 亚洲其他地区 (不包括 中国)

		CAGR 2013-2023																					
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			2020	2021	2022
Fibres	Textile Filament	-0.7%	30	34	36	35	47	46	36	41	40	29	44	42	42	42	42	41	41	41	41	41	41
	Industrial Filament	2.8%	60	77	82	84	91	90	82	97	103	102	115	128	137	140	143	145	147	149	151	151	
	Carpet Filament	4.1%	4	3	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	
	Total Filament	1.9%	94	114	121	122	141	138	120	140	145	133	161	173	181	184	188	189	191	193	195	195	
	Staple Fibre	-	2	2	2	2	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
Plastics	Total	1.9%	96	116	123	124	143	139	121	141	145	133	161	173	181	184	188	189	191	193	195	195	
	Requirement	3.3%	171	197	199	219	214	223	143	225	266	245	238	241	260	266	273	283	293	295	306	317	329
	Import	-3.0%	53	53	61	59	59	67	41	72	80	80	83	56	56	57	57	58	59	59	59	61	
	Export	-4.5%	85	97	92	101	103	94	94	134	134	128	140	105	104	102	100	99	93	93	93	88	
	Production	1.9%	203	241	230	261	258	250	196	287	320	293	295	290	308	312	316	325	328	329	340	351	356
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Requirement	1.7%	271	323	320	347	365	354	290	387	397	364	395	402	421	428	435	447	449	452	452	463	467
	Import	2.7%	137	174	179	191	215	198	168	218	231	202	219	215	234	242	246	252	262	265	270	279	286
	Export	0.6%	11	11	11	13	11	27	17	43	43	46	50	53	65	63	58	58	53	53	53	53	53
	Production	0.3%	145	160	152	169	161	183	139	212	209	208	226	212	240	252	249	247	253	240	235	237	234
Polymer 聚合物	Capacity	0.9%	177	195	195	195	195	235	243	251	255	268	305	325	325	325	325	330	335	335	335	335	335
	Utilisation	82%	82%	78%	87%	83%	78%	78%	57%	84%	82%	78%	74%	74%	78%	77%	76%	78%	73%	72%	70%	71%	70%
	Requirement	0.3%	169	187	178	198	189	214	163	248	244	242	265	281	294	291	288	296	281	281	276	278	274
	Import	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Production	0.3%	169	187	178	198	189	210	163	248	244	242	265	281	294	291	288	296	281	281	276	278	274
	Capacity	0.0%	275	275	275	275	275	345	345	345	345	351	369	369	369	369	369	369	369	369	369	369	369
	Utilisation	61%	61%	68%	72%	69%	61%	47%	72%	71%	69%	69%	72%	76%	80%	79%	78%	80%	76%	76%	75%	75%	74%
	Requirement for PA66	0.3%	76	84	80	89	85	95	74	112	110	109	119	126	132	131	130	134	126	126	124	125	123
	Requirement for Other	2.4%	19	18	19	22	28	31	27	24	28	32	30	31	32	33	33	34	35	36	37	38	38
HMD	Total Requirement	0.8%	95	102	99	111	113	126	101	136	138	141	149	157	164	164	163	168	161	162	161	163	161
	Import	0.8%	63	66	61	71	72	90	79	99	101	103	116	126	133	134	135	141	136	138	137	140	125
	Export	-	-	-	-	1	1	1	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
	Production	0.3%	32	36	38	40	42	36	24	39	40	40	35	31	31	30	28	27	26	25	24	23	36
	Capacity	0.0%	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
ADN	Utilisation	74%	84%	88%	93%	98%	84%	84%	56%	91%	93%	93%	81%	72%	70%	65%	63%	60%	58%	56%	53%	53%	84%
	Requirement	0.0%	31	34	36	38	40	35	23	37	38	38	34	30	30	29	26	26	24	23	23	22	34
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	0.0%	31	34	36	38	40	35	23	37	38	38	34	30	30	29	26	26	24	23	23	22	34
Adipic Acid	Capacity	0.0%	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	Utilisation	76%	83%	88%	93%	98%	85%	56%	90%	93%	93%	93%	83%	73%	71%	63%	63%	59%	56%	56%	54%	54%	83%
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	0.3%	95	105	100	110	105	117	92	139	137	136	148	157	164	163	162	166	158	158	155	155	153
	Requirement for Other	2.6%	191	206	180	202	205	192	173	230	227	223	226	240	251	260	269	274	279	284	287	290	293
KA Oil	Total Requirement	1.8%	286	311	280	312	310	309	265	369	364	359	374	397	415	423	431	440	437	442	442	445	446
	Import	2.4%	181	193	162	162	164	165	165	198	203	225	236	250	257	271	284	288	290	295	297	300	299
	Export	-0.1%	185	192	159	181	192	110	136	181	162	110	91	110	100	100	100	100	100	95	95	90	90
	Production	0.3%	290	310	277	331	338	255	236	355	322	235	230	257	259	252	247	252	247	240	240	237	237
	Capacity	0.0%	321	371	379	384	389	388	388	398	398	398	288	288	288	288	288	288	288	288	288	288	288
Adipic Acid	Utilisation	90%	84%	73%	86%	87%	66%	61%	89%	89%	81%	59%	80%	89%	90%	88%	86%	88%	86%	83%	83%	83%	82%
	Requirement for AA	0.3%	212	226	202	242	247	186	172	259	236	171	168	188	189	184	180	184	180	175	175	176	173
	Import	-0.1%	73	86	76	92	105	103	107	116	110	107	98	112	105	106	104	107	103	99	99	99	97
	Export	-1.1%	43	62	59	64	88	84	108	88	105	111	92	88	85	80	80	80	80	80	80	80	82
	Production	-0.2%	182	202	185	214	230	167	174	231	231	176	162	164	169	158	156	157	157	156	156	156	158
KA Oil	Capacity	0.0%	269	269	269	269	269	268	268	268	268	268	173	173	173	173	173	173	173	173	173	173	173
	Utilisation	68%	68%	75%	69%	86%	86%	62%	65%	86%	86%	66%	94%	95%	98%	91%	90%	91%	91%	90%	90%	90%	91%

PA66 Production (ktes) 聚酰胺66产量 (千吨)

SOUTH ASIA南亚

	CAGR 2013-2023	CAGR 2013-2023																				
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Fibres	Textile Filament	0.9%	3	4	5	5	16	17	10	10	8	9	11	11	12	12	12	12	12	12	12	12
	Industrial Filament	5.1%	22	22	24	26	30	31	34	41	41	39	47	62	66	69	71	72	73	74	76	77
	Carpet Filament	4.1%	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
	Total Filament	4.4%	27	28	31	33	48	50	46	53	51	50	60	75	80	83	85	87	88	89	91	92
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Total	4.4%	27	28	31	33	48	50	46	53	51	50	60	75	80	83	85	87	88	89	91	92
	Requirement	7.0%	30	33	32	34	32	38	21	34	35	37	33	39	41	44	46	48	52	53	57	60
	Import	0.4%	22	22	21	24	21	21	17	23	22	22	23	19	19	19	20	20	21	22	22	24
	Export	-5.3%	52	52	48	55	54	47	30	62	68	60	74	60	59	57	55	54	48	48	48	43
	Production	0.0%	60	63	59	65	65	64	34	73	81	75	84	80	81	82	81	82	79	79	83	86
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	2.2%	78	82	81	88	104	105	76	116	114	109	127	139	145	149	151	154	152	152	156	158
	Import	4.0%	45	49	51	47	69	70	59	81	78	78	84	99	105	108	110	113	115	115	119	121
	Export	-1.2%	5	5	5	7	5	5	5	7	7	7	9	8	8	8	8	8	8	8	8	8
	Production	-2.1%	38	38	35	48	40	40	22	42	43	38	52	48	48	49	49	49	45	45	45	46
Polymer 聚合物	Capacity	0.0%	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	Utilisation	69%	69%	64%	87%	73%	73%	40%	76%	78%	69%	95%	87%	86%	87%	89%	89%	89%	82%	82%	84%	84%
	Requirement	-2.2%	44	44	41	56	47	47	26	49	50	44	61	56	56	57	57	57	53	53	54	49
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-2.2%	44	44	41	56	47	47	26	49	50	44	61	56	56	57	57	57	53	53	54	49
66 Salt	Capacity	0.0%	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	Utilisation	68%	68%	63%	86%	72%	72%	40%	75%	77%	68%	94%	86%	88%	86%	88%	88%	88%	82%	82%	83%	83%
	Requirement for PA66	-2.0%	20	20	18	25	21	21	12	22	23	20	27	25	25	26	26	26	24	24	24	22
	Requirement for Other	0.0%	3	2	1	2	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Total Requirement	-1.9%	23	22	19	27	22	24	13	23	24	21	28	26	26	27	27	27	25	25	25	23
HMD	Import	-1.9%	23	22	19	27	22	24	13	23	24	21	28	26	26	27	27	27	25	25	25	23
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-2.3%	25	25	23	31	26	26	15	27	28	25	34	31	31	32	32	32	30	30	30	27
	Requirement for Other	3.2%	20	23	21	27	22	24	27	31	36	45	51	54	57	60	63	64	66	69	70	70
	Total Requirement	1.3%	45	48	44	58	48	50	42	58	64	70	85	85	88	92	95	96	96	99	100	97
KA Oil	Import	0.4%	22	29	22	27	22	31	48	36	44	76	93	85	88	92	95	96	96	99	100	97
	Export	-	71	69	48	53	52	-	7	65	52	7	7	-	-	-	-	-	-	-	-	-
	Production	-	94	88	70	84	78	19	1	88	72	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	100	110	110	110	110	110	110	110	110	110	-	-	-	-	-	-	-	-	-	-
	Utilisation	94%	80%	64%	76%	71%	17%	1%	80%	65%	0%	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for AA	-	69	64	51	61	57	14	1	64	53	-	-	-	-	-	-	-	-	-	-	-
	Import	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	3	2	-	-	-	-	-	-	15	21	-	-	-	-	-	-	-	-	-	-
	Production	-	69	64	51	61	57	14	1	64	68	21	-	-	-	-	-	-	-	-	-	-
	Capacity	-	95	95	95	95	95	95	95	95	95	95	-	-	-	-	-	-	-	-	-	-
	Utilisation	73%	67%	54%	64%	60%	15%	1%	67%	72%	22%	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

AUSTRALIA 澳大利亚

Fibres	CAGR 2013-2023																					
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		2020	2021	2022	2023
Textile Filament	Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carpet Filament	4.1%	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	Total Filament	4.1%	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	4.1%	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
Plastics	Requirement	3.4%	11	9	9	8	9	6	8	7	5	6	6	6	6	7	7	7	7	7	7	7
	Import	0.0%	5	5	5	4	5	5	7	6	6	5	5	5	5	5	5	5	5	5	5	5
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	6	5	4	4	4	4	1	1	1	-	1	1	1	1	2	2	2	2	2	2
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	9.6%	7	6	5	5	5	3	3	3	2	3	3	3	3	5	5	5	5	5	5	5
	Import	9.6%	7	6	5	5	5	3	3	3	2	3	3	3	3	5	5	5	5	5	5	5
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	4.1%	3	3	3	2	2	2	3	3	2	2	2	2	2	2	2	3	3	3	3	3
	Total Requirement	4.1%	3	3	3	2	2	2	3	3	2	2	2	2	2	2	2	3	3	3	3	3
	Import	2.0%	3	3	3	2	2	2	3	3	2	2	2	2	2	2	2	3	3	3	3	3
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

PA66 Production (ktes) 聚酰胺66产量 (千吨)

BANGLADESH孟加拉共和国

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	需求	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer聚合物	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	进口	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	出口	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产量	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	产能	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Requirement for Other	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Requirement for AA	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Requirement for AA	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量(千吨)

INDONESIA 印度尼西亚

[illegible]

PA66 Production (ktes)聚酰胺66产量 (千吨)

MALAYSIA马来西亚

Fibres	CAGR 2013-2023																2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	
Plastics	8.8%	8.8%	-	-	-	-	3	3	2	1	1	3	3	2	1	1	7
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Polymer聚合物	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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PA66 Production (ktes)聚酰胺66产量 (千吨)

PAKISTAN巴基斯坦

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺66产量 (千吨)

PHILIPPINES菲律宾

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes)聚酰胺66产量 (千吨)

SINGAPORE新加坡

Fibres	CAGR 2013-2023																	2023
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement	Import	Export	Production	Production	Requirement	
Plastics	4.1%	0.0%	-	-	-	-	6	7	-	-	-	10	10	11	11	12	13	15
	7	7	5	9	8	7	4	5	6	7	7	4	5	5	5	5	5	5
	47	47	42	49	47	41	24	43	44	43	41	20	44	49	51	45	40	35
	46	48	44	48	41	41	41	44	49	42	49	42	59	52	51	48	49	45
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Polymer聚合物	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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ADN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Adipic Acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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KA Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺 66 产量 (千吨)

SRI LANKA斯里兰卡

Fibres	CAGR 2013-2023														2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes)聚酰胺66产量 (千吨)

THAILAND 泰国

[illegible]

PA66 Production (ktes)聚酰胺 66 产量 (千吨)

VIETNAM越南

Fibres	CAGR 2013-2023																	2023
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Textile Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Filament	6.5%	-	-	-	-	-	-	4	11	13	13	16	22	23	24	25	26	30
Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Filament	6.5%	-	-	-	-	-	-	4	11	13	13	16	22	23	24	25	26	30
Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	6.5%	-	-	-	-	-	-	4	11	13	13	16	22	23	24	25	26	30
Plastics	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement 需求量	6.5%	-	-	-	-	-	4	11	13	13	16	22	23	24	26	27	31
	Import 进口量	6.5%	-	-	-	-	-	4	11	13	13	16	22	23	24	26	27	31
	Export 出口量	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Production 产量	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity 产能	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation 产能利用率	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMD	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KA Oil	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes)聚酰胺 66 产量 (千吨)

INDIA印度

Fibres		CAGR 2013-2023														2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	305
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PA66 Production (ktes) 聚酰胺 66 产量 (千吨)

JAPAN日本

Fibres	CAGR 2013-2023																						
	Textile Filament	Industrial Filament	Carpet Filament	Total Filament	Staple Fibre	Total	Requirement	Import	Export	Production	Production	Requirement需求	Import进口量	Export出口量	Production产量	Capacity产能	Utilisation产能利用率	Requirement	Import	Export	Production	Capacity	Utilisation
	-1.5%	0.8%	-	0.6%	-	0.6%	-0.4%	-	-	-	-	1.0%	-5.7%	12.8%	2.8%	1.6%	-	2.8%	-	-	-	-	-
	11	31	2	44	1	45	76	5	82	11	88	116	15	6	107	122	87	125	-	-	-	-	-
	11	45	1	57	1	58	82	8	14	17	88	134	18	6	122	140	87%	143	-	-	-	-	-
	8	47	1	56	1	57	85	9	10	19	88	139	22	6	117	140	84%	137	-	-	-	-	-
	9	49	1	60	1	61	87	10	12	20	94	142	24	6	121	140	86%	142	-	-	-	-	-
	10	47	1	60	1	61	81	10	12	19	94	142	27	6	121	140	87%	142	-	-	-	-	-
	9	47	-	56	-	56	81	9	64	20	87	131	26	6	111	140	79%	130	-	-	-	-	-
	5	37	-	42	-	42	64	5	97	19	71	103	18	4	89	140	64%	104	-	-	-	-	-
	8	42	-	50	-	50	97	8	12	24	42	139	24	8	123	140	88%	144	-	-	-	-	-
	7	46	-	53	-	53	112	7	12	18	52	135	24	6	117	140	84%	137	-	-	-	-	-
	7	47	-	54	-	54	96	7	15	25	52	125	16	7	116	150	77%	135	-	-	-	-	-
	6	48	-	54	-	54	112	7	15	25	52	125	16	7	116	150	77%	135	-	-	-	-	-
	6	48	-	54	-	54	91	6	15	25	52	134	10	10	100	200	72%	168	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	200	73%	171	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	200	71%	170	-	-	-	-	-
	6	49	-	55	-	55	90	6	15	25	55	133	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	133	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136	10	10	100	210	69%	170	-	-	-	-	-
	6	49	-	55	-	55	93	6	15	25	55	136	10	10	100	210	68%	168	-	-	-	-	-
	6	49	-	55	-	55	92	6	15	25	55	136											

PA66 Production (ktes) 聚酰胺 66 产量 (千吨)

SOUTH KOREA 韩国

	CAGR 2013-2023																					
	2023	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibres	Textile Filament	0.0%	-	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2
	Industrial Filament	1.3%	5	7	7	8	9	8	9	10	11	15	12	13	13	14	15	16	17	17	17	17
	Carpet Filament	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Filament	1.1%	5	8	8	9	10	10	9	10	11	12	17	13	14	14	15	16	17	18	18	19
	Staple Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plastics	Total	1.1%	5	8	8	9	10	9	10	11	12	17	13	14	14	15	16	17	18	18	18	19
	Requirement	0.1%	36	46	46	50	53	55	59	62	63	70	69	68	68	69	72	73	71	71	71	71
	Import	0.0%	15	12	14	13	11	11	5	17	14	13	15	15	15	15	15	15	15	15	15	15
	Export	-12.7%	9	13	15	17	19	18	35	37	37	38	39	10	10	10	10	10	10	10	10	10
	Production	-3.5%	30	47	47	54	61	62	62	79	85	88	94	64	63	63	64	67	68	66	66	66
Film	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-2.7%	31	48	48	55	62	63	62	77	78	81	91	63	63	63	65	69	70	70	68	69
	Import	-1.3%	31	48	48	55	62	47	42	57	58	58	63	50	50	50	50	55	55	55	55	55
	Export	-1.8%	-	-	-	-	16	8	27	29	30	30	35	35	35	30	30	25	25	25	25	25
	Production	-3.9%	-	-	-	-	-	32	28	47	49	53	58	48	48	48	45	49	40	40	38	39
Polymer 聚合物	Capacity	0.0%	-	-	-	-	40	48	56	60	60	60	60	60	60	60	60	60	60	60	60	60
	Utilisation	-	-	-	-	-	80%	58%	84%	82%	88%	97%	80%	80%	80%	75%	82%	67%	67%	63%	63%	65%
	Requirement	-3.9%	-	-	-	-	37	33	55	57	62	68	56	56	56	53	57	47	47	44	44	46
	Import	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66 Salt	Production	-3.9%	-	-	-	-	33	33	55	57	62	68	56	56	56	53	57	47	47	44	44	46
	Capacity	0.0%	-	-	-	-	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Utilisation	-	-	-	-	-	48%	47%	79%	82%	89%	97%	80%	80%	80%	75%	82%	67%	67%	64%	64%	65%
	Requirement for PA66	-3.9%	-	-	-	-	15	15	25	26	28	31	25	25	25	24	26	21	21	20	20	21
	Requirement for Other	-	-	-	-	3	15	15	25	26	28	31	25	25	25	24	26	21	21	20	20	21
HMD	Total Requirement	-3.9%	-	-	-	3	15	15	25	26	28	31	25	25	25	24	26	21	21	20	20	21
	Import	-4.6%	-	-	-	3	15	15	25	26	28	33	25	25	25	24	26	21	21	20	20	21
	Export	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADN	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Import	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adipic Acid	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-3.9%	-	-	-	-	19	18	31	32	35	38	31	31	31	29	32	26	26	25	25	26
	Requirement for Other	1.5%	47	48	39	38	38	34	25	41	42	43	44	45	46	47	48	49	49	50	50	51
KA Oil	Total Requirement	-0.7%	47	48	39	38	53	43	72	74	78	82	76	77	78	76	80	75	75	75	75	77
	Import	-1.0%	28	22	18	16	8	7	16	26	19	28	25	25	25	25	25	25	25	25	25	25
	Export	0.1%	75	88	82	102	119	95	109	102	101	86	79	100	90	90	90	90	90	85	85	80
	Production	-0.1%	94	114	103	124	143	140	145	157	149	145	134	151	142	143	141	140	140	135	135	132
	Capacity	0.0%	100	135	140	145	150	150	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Polymer 聚合物	Utilisation	94%	94%	84%	74%	86%	93%	97%	98%	93%	90%	83%	95%	89%	90%	88%	91%	88%	88%	84%	84%	82%
	Requirement for AA	-0.1%	69	83	75	91	104	102	115	109	106	97	111	104	105	103	106	102	102	98	98	96
	Import	-0.1%	69	83	75	91	104	102	115	109	106	97	111	104	105	103	106	102	102	98	98	96
	Export	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polymer 聚合物	Capacity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Utilisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for HMD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for PA66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Requirement for Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PA66 Production (ktes) 聚酰胺 66 产量 (千吨)

TAIWAN 台灣

[illegible]

附件 V-1

非保密概要

附件 V-1：本附件之内容为申请书正文部分所提供的申请人的生产、经营和财务数据的底层数据。本部分内容属于申请人的商业秘密，故申请保密。

在申请书公开版本的正文部分，已经以指数和数值区间形式提供了上述申请人生产、经营和财务数据的非保密概要，其他利害关系方可以合理理解。

附件 V-2



編輯 | 看回應 | 寫心得 | 轉寄 | 收藏 | 列印 | 主題

國喬石油化學股份有限公司

回應(0) 人氣(18709) 收藏(0)

請參考 國喬石油化學股份有限公司

(一)公司簡介

1.沿革與背景

公司成立於1973年，前身為大德昌石油化學股份有限公司，是台灣第一家生產苯乙烯單體(SM)的公司，於1984年改名為國喬石油化學股份有限公司，隸屬於和信集團。1990年，公司陸續購併國亨化學(生產HIPS)及必詮公司(生產HIPS/GPS)、1995年購併大德昌氣體公司(氬氣事業)。

2008年4月，與全球第一大ABS樹脂廠奇美實業合作，雙方位於大陸鎮江的6家子公司已於2010年合併，合併後年產能達70萬公噸，成為全中國大陸最大的ABS廠，其中，奇美實業持股比例為69.6%，國喬持股30.4%。

2012年，公司跨足尼龍66，成為國內第一家生產商。此外，國亨與必詮合併，以國亨為存續公司。

2.營業項目與產品結構

公司主要產品包括SM、ABS、氬氣(H2)及尼龍66，其中尼龍事業於2012年初成立，Q3開始投料生產，初期規劃1萬噸/年，主要供應給下游摻配加工廠及束帶射出廠。

2013年，營收比重分別為SM佔65%、ABS佔20%、汽電佔2%、媒體佔10%。其中媒體部份主要係轉投資緯來電視股份有限公司。

(二)產品與競爭條件

1.產品與技術簡介

SM為流通性高的石化原料，主要三大用途為生產PS、EPS、ABS，此外還包括不飽和聚酯(UPS)、苯乙烯乳膠(SB Latex)、苯乙烯橡膠(SBR)等次要用途。ABS屬於SM下游產品，其主要用於家電、電子產品及汽車產業等。

1公噸SM=0.84公噸苯+0.32公噸乙烯+工繳(110美元)

1公噸ABS=0.27公噸AN+0.19公噸丁二烯+0.54公噸SM+工繳(370~400美元)

2.重要原物料及相關供應商

ABS主要原料及供應商：AN由中石化提供，丁二烯由中油、台塑化供應。

SM主要原料及供應商：乙烯由中油提供，苯由中油、中碳供應，其中苯占比超過七成。

尼龍66主要原料及供應商：己二胺與己二酸，其供應均由國外進口。

3.產能狀況與生產能力

年產能方面：

台灣廠：SM為37萬噸、ABS為8萬噸(自用約5萬噸)、尼龍66為1.2萬噸。

大陸鎮江廠：SM廠為37萬噸、ABS為85萬噸、PS為36萬噸、PMMA為13萬噸。

另外，公司興建汽電廠一年可生產150噸蒸氣與2.5億度電，其中蒸氣約85%用於自有SM與ABS產能，15%出售予鄰近廠商使用，電力方面大多自用為主，其餘少部分電力售予台電。

(三)市場需求與銷售競爭

1.產業結構與供需

2012年全球SM需求量約2704萬公噸，產能為3212萬公噸。預期2014年SM新增產能約45萬噸，但苯新增產能約276萬噸，故苯價上漲不易。

其中，ABS對SM的需求約397萬公噸。台灣方面，對SM的需求量為179萬噸，ABS為12萬噸。ABS部份，2014年因奇美增加35萬噸，LG中國廠增加15萬噸，沙國也增加15萬噸左右，總供給將成長9%。

銀行匯率 即時全球指數

生活情報 DJ觀點 專題報導

服貿話題 境外基金 XQ

尼龍66方面，在台灣約有2萬噸缺口，由於目前台灣並無尼龍66生產廠家，下游加工廠每年需從歐美日等國家進口，故公司跨足該項產品後將具有在地化的優勢。現階段公司每月出貨量約1000噸，2014年下半年計畫再增加產線。

2. 銷售狀況

公司產品主要以內銷為主，2012年國內市占率方面，SM約占19%，排名第二，第一名為台化，占約60%。ABS市占率僅約5.8%。

3. 國內外競爭廠商

ABS主要競爭者包括台化、奇美實業、台達化、BASF、Bayer、Dow Chemical、LG Chem、Toray。

SM主要競爭者包括台化、台苯、BASF、Dow Chemical、Honam Petrochemical、LG Chem、三菱化學。

工業氣體主要競爭者包括：東聯、亞東氣體。

(四) 財務相關

1. 主要轉投資事業

國喬持有緯來電視台62.29%股權，為台灣主要的衛星頻道供應商。緯來旗下有六個頻道，分別為緯來體育台、緯來日本台、緯來電影台、緯來綜合台、緯來戲劇台與緯來育樂台，及代理三個國外頻道。另外，還包含國亨化學(100%)、鎮江奇美(30.4%)及太平洋投資股份有限公司。

國喬石油化學股份有限公司(1312.TW) 2014/07/28 開17.2 高17.3 低17.1 收17.15 量2476



分類主題：SM·ABS·PS·尼龍·電子化工材料·國喬·台股

相關百科

- 華廣生技股份有限公司
- 合世生醫科技股份有限公司
- 華上生醫股份有限公司

附件 V-3

中国合成树脂供销协会

中合供字[2014]35 号

美国、意大利、英国、法国和台湾地区 向全球出口聚酰胺-6,6 切片的情况证明

根据中国合成树脂供销协会掌握数据，2013 年美国、意大利、英国、法国和台湾地区向第三国（地区）出口聚酰胺-6,6 切片的数量、出口价格和出口金额如下：

表 1. 美国聚酰胺-6,6 切片向第三国（地区）的出口出口价格情况（单位：吨）

出口国家（地区）	2013 年		
	出口金额 （美元）	出口数量 （吨）	出口价格 （美元/吨）
孟加拉共和国	891,239	304	2,934.77
比利时	85,978,770	25,703	3,345.07
加拿大	95,060,006	31,409	3,026.53
中国（中华人民共和国）	110,632,600	37,239	2,970.88
法国	706,086	211	3,345.07
德国	20,189,453	6,036	3,345.07
中国香港	42,714,435	14,555	2,934.77
印度	25,613,748	8,728	2,934.77
印度尼西亚	41,465,055	14,129	2,934.77
爱尔兰	682,354	204	3,345.07
意大利	796,607	238	3,345.07
日本	41,280,625	14,066	2,934.77
墨西哥	137,800,412	45,531	3,026.53
荷兰	8,041,308	2,404	3,345.07
菲律宾	768,166	262	2,934.77
新加坡	50,371,817	17,164	2,934.77
斯洛文尼亚	1,449,951	433	3,345.07
西班牙	6,431,193	1,923	3,345.07
台湾	75,958,013	25,882	2,934.77
泰国	27,634,391	9,416	2,934.77
英国	3,840,767	1,148	3,345.07
小计	778,306,993	256,984	3,028.63

表 2. 意大利聚酰胺-6,6 切片向第三国（地区）的出口价格情况（单位：吨）

出口国家（地区）	2013 年		
	出口金额 （美元）	出口数量 （吨）	出口价格 （美元/吨）
奥地利	8,439,537	2,523	3,345.07
比利时	7,453,823	2,228	3,345.07
保加利亚	4,426,146	1,323	3,345.07
中国（中华人民共和国）	8,656,674	2,795	3,097.20
克罗地亚	2,247,528	672	3,345.07
捷克共和国	9,433,741	2,820	3,345.07
丹麦	1,357,814	406	3,345.07
法国	51,746,588	15,470	3,345.07
德国	198,967,291	59,481	3,345.07
希腊	1,541,932	461	3,345.07
中国香港	5,033,439	1,715	2,934.77
匈牙利	7,774,512	2,324	3,345.07
印度	5,785,121	1,971	2,934.77
印度尼西亚	294,820	100	2,934.77
爱尔兰	1,899,387	568	3,345.07
卢森堡	649,271	194	3,345.07
马来西亚	456,032	155	2,934.77
马耳他	1,588,268	475	3,345.07
荷兰	5,267,606	1,575	3,345.07
波兰	17,332,167	5,181	3,345.07
葡萄牙	3,075,110	919	3,345.07
罗马尼亚	16,629,607	4,971	3,345.07
新加坡	729,633	249	2,934.77
斯洛伐克	7,201,797	2,153	3,345.07
斯洛文尼亚	9,134,282	2,731	3,345.07
西班牙	28,956,235	8,656	3,345.07
瑞典	9,198,344	2,750	3,345.07
中国台湾	801,284	273	2,934.77
英国	22,432,424	6,706	3,345.07
美国	21,437,402	7,083	3,026.53
小计	459,947,813	138,929	3,310.66

表 3. 英国聚酰胺-6,6 切片向第三国（地区）的出口价格情况（单位：吨）

出口国家（地区）	2013 年		
	出口金额 （美元）	出口数量 （吨）	出口价格 （美元/吨）
奥地利	57,276	17	3,345.07
比利时	50,266	15	3,345.07
中国（中华人民共和国）	272,502	57	4,780.74
捷克共和国	282,427	84	3,345.07
丹麦	242,983	73	3,345.07
芬兰	47,956	14	3,345.07
法国	1,296,121	387	3,345.07
德国	971,507	290	3,345.07
匈牙利	82,075	25	3,345.07
爱尔兰	636,459	190	3,345.07
意大利	558,722	167	3,345.07
卢森堡	61,984	19	3,345.07
荷兰	226,516	68	3,345.07
波兰	447,313	134	3,345.07
葡萄牙	88,764	27	3,345.07
罗马尼亚	46,255	14	3,345.07
西班牙	325,443	97	3,345.07
瑞典	376,157	112	3,345.07
美国	48,707	16	3,026.53
小计	6,119,434	1,806	3,387.53

表 4. 法国聚酰胺-6,6 切片向第三国（地区）的出口价格情况（单位：吨）

出口国家（地区）	2013 年		
	出口金额 （美元）	出口数量 （吨）	出口价格 （美元/吨）
奥地利	700,409	209	3,345.07
比利时	984,912	294	3,345.07
中国（中华人民共和国）	662,813	222	2,988.20
捷克	859,166	257	3,345.07
丹麦	241,468	72	3,345.07
德国	6,360,798	1902	3,345.07
中国香港	110,687	38	2,934.77
匈牙利	247,243	74	3,345.07
意大利	2,870,760	858	3,345.07
日本	759,352	259	2,934.77
韩国	567,949	194	2,934.77
墨西哥	313,146	103	3,026.53
荷兰	587,849	176	3,345.07

波兰	3,714,626	1110	3,345.07
葡萄牙	225,912	68	3,345.07
罗马尼亚	229,958	69	3,345.07
斯洛伐克	1,643,495	491	3,345.07
西班牙	1,045,973	313	3,345.07
泰国	464,569	158	2,934.77
英国	959,251	287	3,345.07
美国	851,424	281	3,026.53
小计	24,401,760	7,435	67,611

表 5. 台湾地区聚酰胺-6,6 切片（含改性）向第三国（地区）的出口数量、金额及价格以及出口数量占比，2009 年-2013 年

出口国家（地区）	2013 年		
	出口金额 (美元)	出口数量 (吨)	出口价格 (美元/吨)
中国（中华人民共和国）	49,487,966	13,715	3,608
中国香港	8,386,582	2,299	3,648
印度	873,909	302	2,894
伊朗	812,961	306	2,657
日本	352,057	134	2,620
韩国	3,529,847	973	3,627
马来西亚	430,983	122	3,519
泰国	2,540,229	967	2,628
美国	1,326,877	447	2,966
越南	1,890,003	472	4,002
合计	69,631,414	19,738	3,528

特此证明！



美国、意大利、英国、法国和台湾地区聚酰胺-6,6 切片

出口数据统计报告

本出口统计报告涉及的聚酰胺-6,6 切片贸易统计数据为瑞士 Zen Innovations 公司 Global Trade Tracker (GTT) 数据系统自动生成的数据。GTT 系统提供全球 73 个国家(地区)的进出口贸易统计数据, 这些数据来源于每个国家(地区)的海关或其他官方统计机构, 均是未经改动的权威数据。本报告基本信息如下所示:

报告类型: 对外出口数据

期间: 2008 年-2013 年

国别:

1. United States (美国)

税则号: 3908.10.00 00 (Polyamide-6, -11, -12, -6,6, -6,9, -6,10 or -6,12)

2. Italy (意大利)

税则号: 39081000 (Polyamides-6, -11, -12, -6,6, -6,9, -6,10 OR -6,12, IN PRIMARY FORMS)

3. United Kingdom (英国)

税则号: 39081000 (Polyamides-6, -11, -12, -6,6, -6,9, -6,10 OR -6,12, IN PRIMARY FORMS)

4. France (法国)

税则号: 39081000 (Polyamides-6, -11, -12, -6,6, -6,9, -6,10 OR -6,12, IN PRIMARY FORMS)

5. Taiwan (台湾地区)

税则号: 39081020001 (Polyamide -6,6 (Nylon-6,6))



Report Name	20140815165114613368	
Report Type	Imports/Exports	
Reporting Country	United States	
Date Range	January 2009 – June 2014	
Frequency	Monthly	
Quantity #1	Kilograms	
Currency	US Dollar (USD)	
Creation Date	10 August 2014 16:51 (Central European Summer Time)	
Copyright	Global Trade Tracker, provided by Zen Innovations AG © 2014	
Harmonized Code	Valid from	Commodity descriptions
US 3908100000	2012 onwards	POLYAMIDE-6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12
US 3908100000	2007 onwards	POLYAMIDE-6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12

rv	Jul 2013	Jul 2013	Jul 2013	Aug 2013	Aug 2013	Sep 2013	Sep 2013	Oct 2013	Oct 2013	Nov 2013	Nov 2013	Dec 2013	Dec 2013
Code	Partner Country	Export value	Export quantity 1	price for quantity 1	Export value	Export quantity 1	price for quantity 1	Export value	Export quantity 1	price for quantity 1	Export value	Export quantity 1	price for quantity 1
432	Nicaragua	0	0	0	0	0	0	0	0	0	0	0	0
240	Niger	0	0	0	0	0	0	0	0	0	0	0	0
288	Nigeria	0	0	0	0	0	0	0	0	0	0	0	0
028	Norway	0	0	0	0	0	0	0	0	0	0	0	0
662	Pakistan	0	0	0	0	0	0	0	0	0	0	0	0
442	Panama	0	0	0	0	0	0	0	0	0	0	0	0
504	Peru	39500	10025	3.94	25471	7913	4.035	87760	32080	5370	1227	2685	4.661
708	Philippines	35661	16922	2.107	299051	0	2.535	203852	8000	64378	10260	36687	3.65
060	Poland	3584	80	44.8	0	0	0	11997	7000	31300	10000	31300	3.13
010	Portugal	0	0	0	0	0	0	4763	4763	0	0	0	0
066	Romania	7913	1041	7.601	7913	997	7.937	1572	1572	0	0	47052	10.165
075	Russian Federation	173488	53622	3.235	315686	0	1.906	322859	0	0	0	0	0
355	Saudi Arabia	0	0	0	0	0	0	2891	2891	281969	96126	415142	2.781
706	Seychelles	10146619	3909552	2.595	7333950	2651558	2.766	3425116	2.811	5637017	2022402	4915672	2.79
063	Slovakia	0	0	0	0	0	0	0	0	0	0	0	0
091	Slovenia	205324	44519	4.612	361546	108413	3.335	99262	3.042	393792	120817	273476	3.394
388	South Africa	19507	533	36.598	122997	38000	3.237	19051	3.48	348479	112821	179574	3.15
011	Spain	439857	189985	2.315	983915	449033	2.191	661207	1.97	575862	252881	117533	2.03
669	Sri Lanka	0	0	0	0	0	0	0	0	0	0	0	0
492	Suriname	0	0	0	0	0	0	56177	3.175	0	0	0	0
393	Swaziland	0	0	0	0	0	0	178356	0	0	0	0	0
030	Sweden	15179	590	25.727	0	0	0	4094	11.341	0	0	23254	7.019
039	Switzerland	4660	102	45.686	0	0	0	114326	33.186	0	0	0	0
736	Taiwan	15467192	5347187	2.893	11517569	3688671	3.122	5605601	2.883	12904842	4603235	16560955	2.965
680	Thailand	3321208	991493	3.35	7904559	2412981	3.276	1309210	2.839	4516516	1555371	6020900	2.606
472	Trinidad and Toba	0	0	0	0	0	0	0	0	0	0	0	0
212	Tunisia	0	0	0	116874	56640	2.063	0	0	0	0	0	0
052	Turkey	3302705	818399	4.036	2768951	1000280	2.768	1531992	2.408	2671681	1010712	3658930	2.697
072	Ukraine	0	0	0	0	0	0	0	0	0	0	0	0
647	United Arab Emira	0	0	0	0	0	0	0	0	0	0	46080	2.56
006	United Kingdom	449755	135821	3.311	815896	217171	3.757	131323	4.914	239922	70169	759556	3.909
524	Uruguay	0	0	0	0	0	0	0	0	0	0	0	0
484	Venezuela	30964	1474	21.007	0	0	0	14626	195	27050	5000	89426	8.038
690	Viet-Nam	2516498	850883	2.958	2855725	959890	2.975	1300206	2.912	3728411	1353673	5005405	2.927
653	Yemen	0	0	0	0	0	0	0	0	0	0	0	0
378	Zambia	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total	180845349	56182918	3.219	187925914	57616899	3.262	59434073	3.322	168993867	52342975	167966377	3.272

Report Name	20140815165901699372		
Report Type	Imports/Exports		
Reporting Country	Italy		
Date Range	January 2009 – April 2014		
Frequency	Monthly		
Quantity #1	Kilograms		
Currency	US Dollar(USD)		
Creation Date	10 August 2014 16:59 (Central European Summer Time)		
Copyright	Global Trade Tracker, provided by Zen Innovations AG © 2014		
Harmonized Code	Valid from	Commodity descriptions	
HS 39081000	2012 onwards	POLYAMIDES-6, -11, -12, -6,6, -6,9, -6,10 OR -6,12, IN PRIMARY FORMS	
HS 39081000	2007 onwards	POLYAMIDE -6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12	

Country	Code	Partner	Jan 2013		Feb 2013		Mar 2013		Apr 2013		May 2013		Jun 2013		Count				
			Export value	Export quantity 1	Export price	Export quantity 1	Export price	Export quantity 1	Export price	Export quantity 1	Export price	Export quantity 1	Export price	Export quantity 1					
Albania	070	Albania	6771	1400	4.836	18848	4454	4.232	8099	2000	4.05	15968	4025	3.967	1000	4.056	10877	2675	
Algeria	078	Algeria	60146	15000	4.01	61210	25500	2.4	100727	41500	2.427	378718	84875	4.462	164798	55342	2.978	246705	60000
Argentina	528	Argentina	475723	159511	2.982	444671	147576	3.013	582718	202576	2.877	264217	89323	2.958	602885	197593	3.051	319584	107927
Australia	800	Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3292	1100
Austria	038	Austria	853442	230314	3.706	691509	191233	3.616	807154	192438	4.194	939392	266217	3.529	764276	176051	4.341	1043389	310991
Bangladesh	666	Bangladesh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barbados	469	Barbados	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belarus	073	Belarus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belgium	017	Belgium	670379	211771	3.166	836343	255657	3.271	873408	277465	3.148	638577	219979	2.903	771469	256717	3.005	820172	271163
Belize	021	Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bosnia and Herzegovina	093	Bosnia and Herzegovina	0	0	0	3805	1000	3.805	0	0	0	0	0	0	0	0	0	0	0
Brazil	508	Brazil	776964	245634	3.163	1625318	554166	2.933	2145504	724773	2.96	1982646	685375	2.893	1901302	663534	2.865	1814298	605990
Bulgaria	068	Bulgaria	563509	132883	4.241	444816	109530	4.061	539008	133975	4.023	451793	122919	3.676	257598	71530	3.601	620311	167056
Cameroon	302	Cameroon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	404	Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chile	512	Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China (People's Republic of)																			
China (People's Republic of)	720	China (People's Republic of)	417910	84861	4.925	1315123	265821	4.947	1357906	354893	3.826	1070437	200842	5.33	1187806	300551	3.952	1219785	307458
Colombia	480	Colombia	66218	12000	5.518	44195	960	4.62	0	0	0	0	0	0	0	0	0	60271	13000
Costa Rica	436	Costa Rica	71908	19000	3.785	71925	19600	3.786	139465	38000	3.67	0	0	0	142548	38000	3.751	73310	19000
Côte d'Ivoire	272	Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Croatia	092	Croatia	176351	38375	4.595	217416	51048	4.259	232415	56375	4.123	139436	30852	4.52	144178	32080	4.494	275739	69292
Cuba	048	Cuba	74798	25000	2.992	0	0	0	0	0	0	0	0	0	277157	75000	3.695	0	0
Cyprus	500	Cyprus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2500	0
Czech Republic	061	Czech Republic	849266	254137	3.342	763659	229965	3.321	896340	282015	3.178	1060893	331635	3.199	766154	282125	3.358	745718	403618
Denmark	008	Denmark	120910	27075	4.466	91060	24000	3.794	236420	54100	4.37	175927	48100	3.658	260581	57624	4.522	177160	48000
Ecuador	500	Ecuador	0	0	0	0	0	0	32071	9000	3.563	0	0	0	0	0	0	0	0
Egypt	220	Egypt	53334	19809	2.692	768318	272593	2.819	803263	294835	2.724	590758	218507	2.704	1145330	433207	2.644	66959	20000
Estonia	053	Estonia	0	0	0	5300	1000	5.3	5272	1025	5.143	4184	1000	4.184	5153	1000	5.153	4232	1000
Finland	032	Finland	69967	17312	4.042	104	25	4.16	3877	570	6.802	21571	5495	3.926	14578	4800	3.037	43211	10875
France	001	France	6238295	1671147	3.733	6118465	1621313	3.774	5854205	1672184	3.501	5328198	1477419	3.606	5584236	1552208	3.598	5654116	1586548
Germany	004	Germany	19549224	5919567	3.302	17297794	5276182	3.278	18259829	5728925	3.187	19500862	6055398	3.22	18149647	5545554	3.273	20160150	6172196
Ghana	276	Ghana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greece	020	Greece	86254	28980	2.976	110489	42075	2.626	63811	20100	3.175	115043	46050	2.498	178312	68420	2.606	135007	51581
Hong Kong	740	Hong Kong	452022	114455	3.949	574568	166679	3.447	487973	91695	5.322	643557	142704	4.51	821106	158081	5.194	921078	220178
Hungary	064	Hungary	844371	268345	3.147	553379	162667	3.402	431275	124069	3.476	436389	125470	3.478	741658	225015	3.296	489362	737689
India	664	India	489179	115619	4.231	985773	269768	3.654	662865	190012	3.489	607182	184763	3.286	1159824	276087	4.201	739237	175615
Indonesia	700	Indonesia	10545	1500	7.03	83216	25000	3.329	7153	1000	7.153	84694	25000	3.388	74622	24000	3.109	0	0
Iran (Islamic Republic of)	616	Iran (Islamic Republic of)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	007	Ireland	93726	17265	5.429	47267	22150	2.134	123678	27281	4.533	605291	167911	3.605	415449	108412	3.832	278856	64175
Israel	704	Israel	0	0	0	0	0	0	0	0	0	41347	12015	3.441	37671	13429	2.805	14025	4500
Japan	732	Japan	0	0	0	0	0	0	0	0	1485	44	0	33.75	1560	46	33.913	0	0
Korea (Republic of)	728	Korea (Republic of)	11605	3000	3.868	89995	14600	6.164	11309	3000	3.77	161998	25200	6.428	0	0	0	11506	3000
Latvia	054	Latvia	6987	995	7.022	0	0	0	0	0	0	18614	4000	4.654	0	0	0	18695	3981

Count	ry	Partner	Country	Jan 2013	Jan 2013	Jan 2013	Feb 2013	Feb 2013	Feb 2013	Mar 2013	Mar 2013	Mar 2013	Apr 2013	Apr 2013	Apr 2013	May 2013	May 2013	May 2013	Jun 2013	Jun 2013
				Export quantity 1	Export price for quantity 1	Export quantity 1	Export quantity 1	Export price for quantity 1	Export quantity 1	Export quantity 1	Export price for quantity 1	Export quantity 1	Export quantity 1	Export price for quantity 1	Export quantity 1	Export quantity 1	Export price for quantity 1	Export quantity 1	Export quantity 1	Export price for quantity 1
604	Lebanon			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
216	Libyan Arab Jamat			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
037	Liechtenstein			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
055	Lithuania			45704	12175	3.754	21061	3630	5.802	72804	23750	3.065	4251	1425	2.983	23471	2325	10.095	35584	3000
018	Luxembourg			85112	23965	3.552	8119	2125	3.821	87842	23498	3.738	87617	24192	3.622	93443	24750	3.775	7547	2000
743	Macao			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
701	Malaysia			182746	60000	3.046	0	0	0	65366	21006	3.112	67435	20872	3.231	30487	1761	17.312	47150	15000
046	Malta			0	0	0	0	0	0	11208	2002	5.598	0	0	0	423357	76187	5.557	491482	86961
412	Mexico			111879	21104	5.301	298977	62550	4.78	269370	65354	4.122	50561	11100	4.555	243562	55400	4.396	211701	43650
204	Morocco			314833	79070	3.982	33956	9119	3.724	106364	26250	4.052	117606	38000	3.095	93742	25250	3.713	250178	70958
003	Netherlands			595033	242817	2.451	412069	146419	2.814	436031	155529	2.804	380232	139308	2.729	357266	115589	3.091	467850	159819
028	Norway			1886	254	7.425	0	0	0	0	0	0	0	0	0	0	0	0	0	0
649	Oman			13331	870	15.323	0	0	0	0	0	0	0	0	0	0	0	0	0	0
662	Pakistan			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
442	Panama			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
504	Peru			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
708	Philippines			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
060	Poland			1843601	442718	4.164	1853904	472258	3.926	2054730	537703	3.821	1938035	521437	3.717	2153465	609655	3.532	1972740	561837
010	Portugal			380711	125145	3.042	329795	102682	3.212	277689	96516	2.877	315607	104401	3.023	242381	77002	3.148	277797	97345
644	Qatar			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
066	Romania			1445381	398013	3.631	1429004	420748	3.396	1691004	523191	3.232	1539559	491220	3.134	2032817	658860	3.085	1759759	583461
075	Russian Federation			35749	9728	3.675	0	0	0	15194	2027	7.496	0	0	0	15120	2000	7.56	0	0
632	Saudi Arabia			0	0	0	231591	49500	4.679	205093	46605	4.401	155638	36445	4.545	78191	21375	3.658	120908	24750
098	Serbia			16210	5000	3.242	42267	6412	6.592	30073	11688	2.573	63713	11288	5.644	69529	22588	3.078	66418	11961
706	Singapore			170318	50000	3.406	229878	60000	3.831	133929	29726	4.505	0	0	0	242726	70000	3.468	135993	30104
063	Slovakia			979758	208092	4.708	826981	203391	4.066	1088224	267760	4.064	977921	210114	4.654	1022454	219830	4.651	988195	216170
091	Slovenia			1307091	389528	3.356	820561	226433	3.624	1199842	350847	3.42	754731	208213	3.625	872831	237829	3.67	868750	257583
388	South Africa			60867	22750	2.675	390065	143200	2.724	112632	39599	2.844	364899	147100	2.481	152501	58425	2.61	299425	119500
011	Spain			2915523	892929	3.265	2714475	792233	3.426	2574419	782652	3.289	2789901	837399	3.332	2902220	879704	3.299	2949695	918750
669	Sri Lanka			0	0	0	0	0	0	0	0	0	0	0	0	33225	10000	3.322	0	0
030	Sweden			941260	285308	3.299	1111985	310619	3.58	1000126	320495	3.121	812746	233601	3.479	1030870	320783	3.214	656374	205842
039	Switzerland			651824	188590	3.456	615143	168014	3.661	737366	216452	3.407	1017153	291732	3.487	822888	233920	3.518	788649	232843
608	Syrian Arab Repub			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
736	Taiwan			55917	20000	2.796	75126	24000	3.13	0	0	0	134254	44000	3.051	91199	27000	3.378	76072	24000
680	Thailand			17154	3084	5.562	28556	5000	5.711	0	0	0	0	0	0	0	0	0	0	0
212	Tunisia			532698	168850	3.155	403727	103747	3.891	497328	122818	4.049	645161	164094	3.932	362831	83392	4.351	506688	132545
052	Turkey			1209571	385114	3.141	1371787	520534	2.635	1533025	548197	2.796	1674714	536739	3.12	1039353	368298	2.822	1041344	312914
072	Ukraine			0	0	0	18682	10292	1.815	9821	5540	1.773	0	0	0	0	0	0	13554	6264
647	United Arab Emira			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006	United Kingdom			1788346	509267	3.512	2245939	640110	3.509	1759552	539318	3.263	2044146	596272	3.428	3285298	986134	3.331	2185681	727860
400	United States			2084859	546897	3.812	2329139	635863	3.663	2896978	871236	3.325	2317217	639385	3.624	2641425	721760	3.66	1734141	410743
524	Uruguay			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7325	2000
081	Uzbekistan			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77126	2000
484	Venezuela			23616	6000	3.936	0	0	0	0	0	0	0	0	0	0	0	0	0	0
468	Virgin Islands (Brit			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total			50900781	14732223	3.455	51067590	14872841	3.434	53531754	16153565	3.314	53543632	15883655	3.371	55930603	16473223	3.395	54582761	16741368

[illegible]

Count	Country	Partner	Jun 2013		Jul 2013		Aug 2013		Sep 2013		Oct 2013		Nov 2013		Dec 2013		Export price for quantity 1
			Export quantity 1	Export value	Export quantity 1	Export price for quantity 1	Export quantity 1	Export value	Export quantity 1	Export price for quantity 1	Export quantity 1	Export value	Export quantity 1	Export price for quantity 1	Export quantity 1	Export value	
604	Lebanon		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
216	Libyan Arab Jamahiriya		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
037	Liechtenstein		5.542	0	0	0	0	0	0	0	0	0	0	0	0	0	
055	Lithuania		3.191	6426	1250	5.141	12813	2500	5.125	29475	9900	2.977	6703	1250	5.302	42693	
018	Luxembourg		3.774	170319	46320	3.677	8142	2137	3.81	83453	22375	3.73	111549	30950	3.604	0	
743	Macao		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
701	Malaysia		3.143	89576	21893	4.092	2843	130	21.869	18303	2850	6.422	0	138871	31406	4.422	
046	Malta		5.652	927586	336268	2.758	70179	25717	2.729	0	0	11853	2025	5.853	0	0	
412	Mexico		4.85	303199	66600	4.553	247305	53106	4.657	240922	59185	4.071	195970	36533	5.364	0	
204	Morocco		3.526	17904	5172	3.462	15225	4640	3.281	221158	58000	3.813	258076	66150	3.901	0	
003	Netherlands		2.927	567608	199311	2.848	365390	116579	3.134	325542	128643	2.531	544114	163252	3.333	0	
028	Norway		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
649	Oman		0	0	0	0	0	0	0	0	0	0	0	12506	1005	12.444	
662	Pakistan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
442	Panama		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
504	Peru		3.69	0	0	0	0	0	0	0	0	0	0	0	0	0	
708	Philippines		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
060	Poland		3.511	2276054	635834	3.58	1116825	300584	3.716	2044837	637935	3.205	2056852	542634	3.79	0	
010	Portugal		2.854	166872	56777	2.939	240246	83311	2.884	296929	94626	3.138	441123	141984	3.107	0	
644	Qatar		0	3558	349	10.195	0	0	0	0	0	0	0	0	0	0	
066	Romania		3.016	1276447	367868	3.47	1114712	350696	3.179	1659908	504580	3.29	1900694	548982	3.462	0	
075	Russian Federation		0	184807	50024	3.694	0	0	0	0	0	0	0	133641	33801	3.954	
632	Saudi Arabia		4.885	113689	24750	4.593	114227	24750	4.615	115333	24750	4.66	238948	49500	4.827	0	
098	Serbia		5.553	27361	8000	3.42	0	0	6.209	0	70632	11200	6.306	104703	27815	3.764	
706	Singapore		4.517	201504	40000	5.038	60403	9729	6.209	0	0	0	0	0	0	0	
063	Slovakia		4.571	1213179	268332	4.521	319930	69891	4.578	1259908	254242	4.956	1079737	222870	4.845	0	
091	Slovenia		3.373	779983	214163	3.642	627201	175660	3.571	1203259	342437	3.514	1196799	331281	3.613	0	
388	South Africa		2.506	215873	84550	2.553	31849	12000	2.654	248900	74645	3.334	77834	33500	2.323	0	
011	Spain		3.211	3700056	1177114	3.143	1241618	376865	3.295	3526880	1075057	3.281	3235137	913858	3.54	0	
669	Sri Lanka		0	0	0	0	0	0	3.128	10000	0	0	0	0	0	0	
030	Sweden		3.189	590353	176911	3.337	900290	284375	3.166	1003038	301490	3.327	1138389	335400	3.394	0	
039	Switzerland		3.387	797669	205735	3.877	536570	165056	3.251	748436	213627	3.503	786916	224200	3.51	0	
608	Syrian Arab Republic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
736	Taiwan		3.17	117718	40000	2.943	0	0	0	0	0	0	134936	44000	3.067	0	
680	Thailand		0	0	0	0	0	0	0	34456	5973	5.769	0	0	0	0	
212	Tunisia		3.823	368493	78202	4.712	315455	82262	3.835	394969	95335	4.143	626480	172323	3.635	0	
052	Turkey		3.328	1376457	458498	3.002	373607	121218	3.082	1032022	318256	3.243	1031970	349752	2.951	0	
072	Ukraine		2.164	0	0	0	0	0	0	11382	6241	1.824	7080	2000	3.54	0	
647	United Arab Emirates		0	115390	43816	2.634	0	0	0	114907	43399	2.648	0	0	0	0	
006	United Kingdom		3.003	3139061	900624	3.485	1235491	363720	3.397	2105380	625973	3.363	3004331	870430	3.452	0	
400	United States		4.222	2166508	575661	3.764	2263557	625870	3.617	2804080	769970	3.642	3338178	828740	4.028	0	
524	Uruguay		3.662	0	0	0	0	0	0	0	0	0	44549	16000	2.784	0	
081	Uzbekistan		3.856	0	0	0	0	0	0	0	0	0	0	0	0	0	
484	Venezuela		0	0	0	0	0	0	0	0	0	0	78915	20000	3.946	0	
468	Virgin Islands (British)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9999	Total		3.26	61400329	18087043	3.395	33839911	10107182	3.348	55644499	16551920	3.362	62260260	17824764	3.493	0	
								</									

Report Name	20140815170839554444	
Report Type	Imports/Exports	
Reporting Country	United Kingdom	
Date Range	January 2009 – June 2014	
Frequency	Monthly	
Quantity #1	Kilograms	
Currency	US Dollar (USD)	
Creation Date	10 August 2014 17:08 (Central European Summer Time)	
Copyright	Global Trade Tracker, provided by Zen Innovations AG © 2014	
Harmonized Code	Valid from	Commodity descriptions
HS 39081000	2012 onwards	POLYAMIDES-6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12, IN PRIMARY FORMS
HS 39081000	2007 onwards	POLYAMIDE -6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12

		Count	Jan 2013	Jan 2013	Jan 2013	Feb 2013	Feb 2013	Feb 2013	Mar 2013	Mar 2013	Apr 2013	Apr 2013	May 2013	May 2013	Jun 2013	Jun 2013
ry	Partner Country	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price
Code	Partner Country	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price	Export value	Export quantity	Export price
098	Serbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
706	Singapore	71714	19300	3.716	0	0	0	36505	9548	3.823	54321	16259	3.341	87759	14396	6.096
063	Slovakia	26043	5949	4.378	5154	1318	3.91	29787	8296	3.591	30228	6666	4.535	17604	4480	3.929
091	Slovenia	29814	6265	4.759	21199	6861	3.09	0	0	0	178	310	0.574	128	20	6.4
388	South Africa	0	0	0	0	0	0	4681	135	34.674	0	0	0	32582	7018	4.643
011	Spain	412080	112317	3.669	384136	74711	5.142	417093	124839	3.341	321902	87387	3.684	280584	64063	4.38
030	Sweden	438007	116704	3.753	405906	102236	3.97	351192	85469	4.109	347932	93016	3.741	391930	105142	3.728
039	Switzerland	112484	25459	4.418	130421	32079	4.066	40977	5000	8.195	77168	23806	3.242	73565	22668	3.245
736	Taiwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
680	Thailand	0	0	0	5807	97	59.866	47829	1796	26.631	1277	450	2.838	9527	1180	8.074
472	Trinidad and Tob	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212	Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052	Turkey	36203	2120	17.077	38215	2502	15.274	76775	3374	22.755	9667	370	26.127	48803	6298	7.749
350	Uganda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
647	United Arab Emir	0	0	0	0	0	0	2679	499	5.369	0	0	0	0	0	0
400	United States	26661	3407	7.825	9842	443	22.217	84539	14735	5.737	19392	3363	5.766	54262	11167	4.859
690	Viet-Nam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total	7447582	1740720	4.278	6352544	1409804	4.506	6846203	1674730	4.088	6790917	1788764	3.796	6828198	1721736	3.966
														6975928	1676023	4.162

		Jul 2013	Jul 2013	Jul 2013	Aug 2013	Aug 2013	Sep 2013	Sep 2013	Oct 2013	Oct 2013	Nov 2013	Nov 2013	Dec 2013	Dec 2013
Count	ry	Partner	Country	Export value	Export quantity 1	Export price for quantity 1	Export value	Export quantity 1	Export price for quantity 1	Export value	Export quantity 1	Export price for quantity 1	Export value	Export quantity 1
098	Serbia	0	0	0	0	0	0	0	0	0	0	0	0	0
706	Singapore	4967	108	45.991	0	0	48055	8183	5.873	12574	3104	4.051	20914	5340
063	Slovakia	4342	860	5.049	6929	1575	32963	8540	3.86	26299	5749	4.575	45578	11176
091	Slovenia	12147	3004	4.044	1208	251	4.813	384	4.414	3806	213	17.869	176	1
388	South Africa	0	0	0	2886	110	26.236	38205	3.081	2264	170	13.318	4693	150
011	Spain	226890	51827	4.378	166114	42562	347190	73824	4.703	387704	87918	4.41	433476	97298
030	Sweden	209556	51607	4.061	466114	108562	4.294	452927	96026	393260	83324	4.72	504810	131670
039	Switzerland	32017	7987	4.009	141517	41566	3.405	172224	4.339	176739	50638	3.49	144728	40784
736	Taiwan	0	0	0	0	0	0	0	0	1497	130	11.515	0	0
680	Thailand	41464	1348	30.76	81871	3438	23.814	60136	20.873	73496	6866	10.704	47231	9050
472	Trinidad and Tob	0	0	0	0	0	0	0	0	0	0	0	0	0
212	Tunisia	0	0	0	0	0	0	0	0	67352	28800	2.339	25373	1479
052	Turkey	59590	2809	21.214	20944	2102	9.964	206786	8.81	22833	1564	14.599	147440	24519
350	Uganda	0	0	0	0	0	0	0	0	0	0	0	0	0
647	United Arab Emir	0	0	0	0	0	0	0	0	0	0	0	0	0
400	United States	408235	42049	9.709	190307	24246	7.849	2816	8.665	91343	13425	6.804	28453	3628
690	Viet-Nam	0	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total	6920737	1791173	3.864	6422339	1314875	4.884	6772935	4.638	7289660	1732926	4.207	6988872	1488256
													5206595	1137500
													4.696	4.577

Report Name	20140815171242543463		
Report Type	Imports/Exports		
Reporting Country	France		
Date Range	January 2009 – June 2014		
Frequency	Monthly		
Quantity #1	Kilograms		
Currency	US Dollar (USD)		
Creation Date	10 August 2014 17:12 (Central European Summer Time)		
Copyright	Global Trade Tracker, provided by Zen Innovations AG © 2014		
Harmonized Code	Valid from	Commodity descriptions	
HS 39081000	2012 onwards	POLYAMIDES-6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12, IN PRIMARY FORMS	
HS 39081000	2007 onwards	POLYAMIDE -6, -11, -12, -6, 6, -6, 9, -6, 10 OR -6, 12	

Country	Country Code	Jan 2013		Feb 2013		Mar 2013		Apr 2013		May 2013		Jun 2013		Jul 2013	
		Export value	Export price	Export value	Export price	Export value	Export price	Export value	Export price	Export value	Export price	Export value	Export price	Export value	Export price
Albania	070	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Algeria	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Angola	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argentina	5702	0	200	0	0	0	0	0	0	0	0	0	0	0	0
Armenia	077	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia	435908	31915	13.658	714323	56252	12.699	257627	20025	12.865	20504	1114	18.406	446752	37402	11.945
Austria	1002352	198906	5.039	1365890	260247	5.248	1598039	269929	5.92	1646942	274871	5.992	1521250	271135	5.611
Azerbaijan	078	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahrain	640	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belarus	073	336772	22000	102288	6000	17.048	0	0	0	0	0	0	0	0	0
Belgium	852867	158469	5.382	1499717	314539	4.768	1489299	374921	3.972	1061272	270521	3.923	956523	226149	4.23
Benin	084	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bosnia and Herzegovina	093	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	2316651	145667	15.904	2173874	134349	16.181	1600895	105689	15.147	3414780	214508	15.919	910820	65467	13.913
Bulgaria	87902	25774	3.41	64242	20038	3.206	189594	60741	3.121	177836	43318	4.105	161078	50187	3.21
Burkina Faso	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chile	3782	100	37.82	0	0	0	5190	20	259.5	3497	80	43.712	1770	40	44.25
China (People's Republic of)	720	2610552	407649	6.404	3896630	304606	12.792	2843214	274792	10.347	3391124	281858	12.031	2851630	230587
Colombia	0480	0	0	0	0	0	0	3529	100	35.29	0	0	0	0	0
Côte d'Ivoire	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Countries and territories	958	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Countries and territories	959	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Countries and territories	960	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Croatia	092	0	0	0	753	2.137	816	400	2.04	2.04	0	0	0	0	0
Cyprus	060	0	0	0	0	0	32	8	4	0	0	0	0	0	0
Czech Republic	061	1038600	232417	4.469	1405606	347941	4.04	1069442	251615	4.25	1323201	307743	4.3	1182926	286003
Denmark	008	3376070	184784	18.27	1207790	72308	16.703	537814	35132	15.308	761508	42163	18.061	194589	12962
Egypt	220	0	0	0	68619	15000	4.575	0	0	0	0	0	0	4517	600
Estonia	053	44230	8062	5.486	19974	3503	5.702	97	19	5.105	32531	6235	5.217	54675	10321
Finland	032	78636	6658	11.811	42923	4378	9.804	26632	6127	4.347	22894	3166	7.231	18558	2470
France	001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Germany	004	11743821	2420989	4.851	10799078	2190868	4.929	10572162	2208987	4.786	10503413	2180492	4.817	11057960	2356797
Greece	009	27705	536	51.688	7338	197	37.249	0	0	0	412	97	4.247	40678	405
Guinea	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hong Kong	740	723276	92074	7.855	255443	15844	16.122	330350	33252	9.935	706331	64464	10.957	404237	30044
Hungary	064	674682	146625	4.601	289243	61174	4.728	361517	73796	4.899	454879	102360	4.444	282290	66422
Iceland	024	0	0	0	0	0	0	0	0	0	0	0	0	0	0
India	664	171260	10250	16.708	132368	7900	16.755	319085	29176	10.937	494468	46884	10.547	252573	17395
Indonesia	700	8411	500	16.822	3343	200	16.715	13156	800	16.445	0	0	0	12293	500
Iran (Islamic Rep. of)	0	616	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	007	28353	4245	6.679	9499	1469	6.466	41755	5568	7.499	45494	12345	3.685	87729	23101
Israel	624	330384	24769	13.339	298556	23312	12.807	285568	21500	13.282	170443	15548	10.962	44840	2040
Italy	005	3717010	907748	4.095	4126695	1044006	3.953	4029234	1030861	3.909	4619070	1259471	3.667	3912468	988600
Japan	732	446563	323625	1.38	334780	261050	1.282	367228	273800	1.341	341327	256751	1.329	371322	280850
Korea (Rep. of)	728	935988	142583	6.565	905320	143401	6.313	1543253	365049	4.228	1228334	162600	7.554	1053283	108550
Kuwait	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Count ry	Partner Country	Jan 2013		Feb 2013		Mar 2013		Apr 2013		May 2013		Jun 2013	
		Export value	Export quantity 1	Export price for	Export quantity 1	Export value	Export quantity 1	Export price for	Export quantity 1	Export value	Export quantity 1	Export price for	Export quantity 1
054	Latvia	18049	3036	5.945	30144	5.963	17425	3356	5.192	23774	4282	5.552	29332
604	Lebanon		0	0	0	0	0	0	0	0	0	0	0
055	Lithuania	1432	336	4.262	137414	33936	4.049	92652	23971	3.865	22821	5101	4.474
018	Luxembourg	45797	11200	4.089	122837	29849	4.115	8086	2000	4.043	91590	27150	3.373
701	Malaysia	0	0	0	15680	1000	15.68	0	0	0	1988	65	30.585
046	Malta	0	0	0	0	0	35941	5547	6.479	0	0	0	3499
373	Mauritius	0	0	0	0	0	0	0	0	0	0	0	0
412	Mexico	37355	8000	4.669	481971	140000	3.443	592248	178600	3.316	414789	121245	3.421
204	Morocco	114495	25348	4.517	276644	66219	4.178	202421	47678	4.246	161551	29236	5.526
003	Netherlands	964692	186699	5.167	817627	170395	4.798	979770	168294	5.822	1102021	223150	4.938
809	New Caledonia	0	0	0	0	0	0	0	0	0	0	0	0
804	New Zealand	25142	1000	25.142	0	0	0	28116	1129	24.903	0	0	0
240	Niger	0	0	0	0	0	0	0	0	0	0	0	0
028	Norway	0	0	0	3145	185	17	0	0	0	21051	971	21.68
649	Oman	0	0	0	0	0	0	0	0	0	0	0	0
662	Pakistan	0	0	0	0	0	0	0	0	0	24392	640	38.112
504	Peru	0	0	0	3619	100	36.19	0	0	0	0	0	0
708	Philippines	210533	15000	14.036	183268	13000	14.098	263875	20000	13.194	179934	13325	13.503
060	Poland	5647011	1362407	4.145	4601417	1092832	4.211	4955849	1297497	3.82	4553298	1207860	3.77
010	Portugal	227879	54047	4.216	833843	162450	5.133	228794	57223	3.998	524449	131418	3.991
066	Romania	342740	80055	4.281	310951	72683	4.278	320087	69138	4.63	412922	85797	4.813
075	Russian Federation	911300	95191	9.573	659163	48577	13.569	464365	46246	10.041	664785	74480	8.926
047	San Marino	0	0	0	0	0	0	0	0	0	0	0	0
632	Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0
098	Serbia	0	0	0	0	0	0	0	0	0	0	0	0
706	Singapore	12646	1906	6.635	123004	21925	5.61	72626	13020	5.578	66557	11975	5.558
063	Slovakia	1748458	507995	3.442	2079704	608311	3.419	1799516	537810	3.346	1764277	528877	3.336
091	Slovenia	86178	17351	4.967	121365	25493	4.761	46543	11125	4.184	94955	13154	7.219
388	South Africa	29281	1000	29.281	24591	1000	24.591	151642	25750	5.889	24010	1000	24.01
011	Spain	1510357	307806	4.907	1377527	295127	4.668	1360926	307657	4.424	984664	192660	5.111
669	Sri Lanka	0	0	0	1266	50	25.32	0	0	0	0	0	0
030	Sweden	252525	25060	10.077	67213	6717	10.006	79896	4816	16.59	135865	16723	8.124
039	Switzerland	678567	73850	9.188	1119821	70029	15.991	645825	92614	6.973	606007	82767	7.322
608	Syrian Arab Republic	0	0	0	0	0	0	0	0	0	0	0	0
736	Taiwan	719714	97125	7.41	1072816	121185	8.853	579380	105375	5.498	1101627	106450	10.349
680	Thailand	440461	112100	3.929	501587	119695	4.191	1028695	233804	4.4	505252	102735	4.918
212	Tunisia	583791	131574	4.437	494423	109680	4.508	670699	141005	4.757	754222	166109	4.541
052	Turkey	463075	77323	5.989	821541	194354	4.227	246335	32918	7.483	717219	155959	4.599
080	Turkmenistan	0	0	0	0	0	0	0	0	0	0	0	0
072	Ukraine	59948	10064	5.957	0	0	0	2317	45	51.489	5597	205	27.302
647	United Arab Emirates	68183	3500	19.481	0	0	0	0	0	0	13632	750	18.176
006	United Kingdom	2100149	217956	9.636	3260559	382647	8.521	2533739	376698	6.726	2603330	349179	7.456
400	United States	2590334	325372	7.961	2248852	195023	11.531	3054945	487847	6.262	3026694	452833	6.684
484	Venezuela	0	0	0	0	0	0	0	0	0	0	0	0
690	Viet-Nam	0	0	0	0	0	0	0	0	0	0	0	0
468	Virgin Islands (British	0	0	0	0	0	0	0	0	0	0	0	0
457	Virgin Islands (US)	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total	50887571	9248846	5.502	51517140	9276852	5.553	47948246	9733470	4.926	51430743	9691685	5.307

Count ry	Partner Country	Jul 2013 Export value	Jul 2013 Export quantity 1	Jul 2013 Export price for	Aug 2013 Export value	Aug 2013 Export quantity 1	Aug 2013 Export price for	Sep 2013 Export value	Sep 2013 Export quantity 1	Sep 2013 Export price for	Oct 2013 Export value	Oct 2013 Export quantity 1	Oct 2013 Export price for	Nov 2013 Export value	Nov 2013 Export quantity 1	Nov 2013 Export price for	Dec 2013 Export value	Dec 2013 Export quantity 1	Dec 2013 Export price for
054	Latvia	8594	2001	4.295	584	135	4.326	17068	3184	5.361	21236	3644	5.828	17029	3101	5.491	29451	5264	5.595
604	Lebanon	0	0	0	0	0	0	0	0	0	0	300	36.713	0	0	0	7539	120	62.825
055	Lithuania	93766	23812	3.938	51156	11891	4.302	96852	24077	4.023	116280	28877	4.027	118145	28801	4.102	20139	5056	3.983
018	Luxembourg	8161	2000	4.08	178677	47775	3.74	29940	6126	4.887	78166	22469	3.479	0	0	0	79165	22650	3.495
701	Malaysia	0	0	0	0	0	0	0	0	0	828	50	16.56	2297970	100000	22.98	13686	1200	11.405
046	Malta	0	0	0	77096	9900	7.787	148040	15969	9.27	0	0	0	0	0	0	108705	12048	9.023
373	Mauritius	0	0	0	0	0	0	2848	100	28.48	0	0	0	73142	3633	20.133	35868	2050	17.497
412	Mexico	391145	119000	3.287	192330	59850	3.214	404466	122700	3.296	469955	148800	3.158	549698	172550	3.186	253206	79900	3.169
204	Morocco	161592	34870	4.634	28594	6789	4.212	167141	34451	4.852	175884	34729	5.064	135022	27451	4.919	164093	30196	5.434
003	Netherlands	916703	134270	6.827	713350	169037	4.22	1198801	231822	5.171	931680	168481	5.53	1180877	210137	5.62	794815	172749	4.601
809	New Caledonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1209	600	2.015
804	New Zealand	0	0	0	24156	1000	24.156	0	0	0	27203	2000	13.602	3828	170	22.518	41037	3000	13.679
240	Niger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
028	Norway	8727	1060	8.233	8617	1088	7.92	23675	3071	7.709	20529	800	25.661	0	0	0	0	0	0
649	Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
662	Pakistan	0	0	0	0	0	0	16974	320	53.044	0	0	0	0	0	0	0	0	0
504	Peru	0	0	0	1518	23	66	0	0	0	0	0	0	0	0	0	0	0	0
708	Philippines	137876	10500	13.131	66699	5000	13.34	17738	500	35.476	136820	10000	13.682	91273	6500	14.042	173214	15000	11.548
060	Poland	5285746	1277844	4.136	4404801	1127194	3.908	6302421	1594533	3.953	5406896	1367295	3.954	3373061	860351	3.921	3076262	701769	4.384
010	Portugal	382559	95670	3.999	221041	58976	3.748	75010	19345	3.877	387467	91328	4.243	89987	24136	3.728	203527	50091	4.063
066	Romania	367314	66860	5.494	281533	52824	5.33	499575	102868	4.856	641761	114571	5.601	385979	62651	6.161	352004	73377	4.797
075	Russian Federation	380055	49500	7.678	603305	69684	8.658	666561	84398	7.898	899897	103500	8.695	949636	116425	8.157	815700	64600	12.627
047	San Marino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
632	Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
098	Serbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
706	Singapore	198830	35888	5.54	732	190	3.853	4690	450	10.422	151827	21873	6.941	27858	2150	12.957	11079	333	33.27
063	Slovakia	1565907	473035	3.31	1606420	500870	3.207	1775318	563731	3.149	1628871	543608	2.996	1724713	568997	3.031	858323	267940	3.203
091	Slovenia	65293	14251	4.582	40841	8707	4.691	37937	10071	3.767	49472	11250	4.398	50941	8651	5.888	0	0	0
388	South Africa	410036	132000	3.106	75402	22500	3.351	444934	118150	3.766	171689	45525	3.771	539952	162000	3.333	0	0	0
011	Spain	1683849	384910	4.375	1041772	218952	4.758	2363035	603184	3.918	1584823	470834	3.366	1459229	278110	5.247	1317441	343260	3.838
669	Sri Lanka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
030	Sweden	136038	13840	9.829	202322	15713	12.876	93170	11555	8.063	401918	43031	9.34	137979	8174	16.88	151251	19749	7.659
039	Switzerland	498891	79455	6.279	1211480	138046	8.776	245132	34773	7.049	352762	41741	8.451	646100	32235	20.043	510923	53757	9.504
608	Syrian Arab Republic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
736	Taiwan	369923	24050	15.381	449542	29450	15.265	515952	29400	17.549	368361	37880	9.724	466188	60225	7.741	574960	70850	8.115
680	Thailand	943511	207993	4.536	471290	118917	3.963	1033356	266436	3.878	452179	96560	4.683	328757	90000	3.653	807801	224200	3.603
212	Tunisia	567255	110498	5.134	448484	89524	5.01	656163	152643	4.299	579908	115987	5	707787	146247	4.84	367177	80147	4.581
052	Turkey	716139	165606	4.324	1480491	371918	3.981	471899	98724	4.78	508030	79078	6.424	462829	76936	6.016	1144372	295880	3.868
080	Turkmenistan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
072	Ukraine	0	0	0	0	0	0	3757	140	26.836	61094	10064	6.071	0	0	0	0	0	0
647	United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0	714190	198000	3.607	0	0	0
006	United Kingdom	2739288	310636	8.818	2026373	199439	10.16	2430717	312893	7.769	2759500	345818	7.98	2418708	380547	6.356	1837433	176353	10.419
400	United States	2487019	318441	7.81	1496220	198454	7.539	1951670	231771	8.421	1879119	143005	13.14	1455784	183995	7.912	2722034	383094	7.105
484	Venezuela	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
690	Viet-Nam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
468	Virgin Islands (British	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
457	Virgin Islands (US)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9999	Total	46563423	9056302	5.142	44482729	8380640	5.308	51565689	10226609	5.042	45561690	8564230	5.32	45017163	8212253	5.482	37994089	6777915	5.606

Report Name	20140815171945255467	
Report Type	Imports/Exports	
Reporting Country	Taiwan	
Date Range	January 2009 – June 2014	
Frequency	Monthly	
Quantity #1	Kilograms	
Currency	US Dollar (USD)	
Creation Date	10 August 2014 17:19 (Central European Summer Time)	
Copyright	Global Trade Tracker, provided by Zen Innovations AG © 2014	
Harmonized Code	Valid from	Commodity descriptions
TW 39081020001	2012 onwards	Polyamide 6,6 (nylon 6,6)
TW 39081020001	2007 onwards	Polyamide 6,6 (nylon 6,6)

附件 V-4





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英威达英国尼龙装置即将停产

作者：章文 2009年01月22日 来源：中国化工报

中化新闻网讯 英威达公司1月19日宣布，该公司在英国威尔顿（Wilton）的尼龙及中间体装置即将停产，约300人会因此而失去工作岗位。但英威达功能技术公司在Wilton的生产将不受停工的影响。

该联合装置的主要产品为己二酸、六甲撑二胺、尼龙盐和尼龙66，同时该联合装置也生产二氨基环己烷、二六甲撑三胺和二元酯类的前体。

英威达公司表示，其在欧洲的生产能力过剩，而尼龙中间体和聚合物的需求逐渐向亚洲和其他地区转移。同时，住房、汽车、纺织和其他关键市场不景气使尼龙需求快速下滑。英威达中间体公司总裁沃伦先生（Warren Primeaux）表示，在这种情况下，关停Wilton生产装置将提升该公司在全球的竞争力。（章文）

中国化工报社主办“2014全国煤制氢技术应用研讨会”4月23-25在山东临沂举办
咨询电话：010-82037900。
详情请关注：<http://www.ccin.com.cn/meeting/2014/2014meizhiqing/index.html>
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