Market Study: Polyamide - PA6 & PA66
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Yours faithfully, Oliver Kutsch

This study is useful for:
• Producers, traders and converters of Polyamide 6 and Polyamide 66 as well as other plastics
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• Companies operating in the fields of: Transportation, electrical applications and electronics, consumer goods, packaging and films, textiles, fibers
• Associations and institutes
• Executive board, technology and production, strategic planning, R&D, market research, marketing, sales and distribution, procurement

Our studies - Your benefits
• Gain new customers
  Our studies show who are potential new customers and where you can find them
• Locate new procurement markets
  Recognize better or alternative sources of supply
• Improve your understanding of your competitors
  Who exactly are your competitors - and what are their strengths and weaknesses
• Obtain a more detailed picture of your segment
  Learn which time is the best for entering or leaving a market
• Have a look at the future
  Find out if new investments and technologies are worthwhile and how to gain access to future markets. We also show possible market scenarios
• Recognize opportunities and risks
  Identify opportunities and risks on your target markets in time

In this brochure you will find information on the Market Study Polyamide:
• An introduction on page 3
• A summary of the table of contents on page 4
• In the following, there are example pages from the study
• Please use the form on the last page to easily order your copy or a free reading sample!
There are different types of polyamides that vary in their chemical constitution and are derived from different raw materials. The most important polyamides are the product types polyamide 6 (PA6) and polyamide 66 (PA66). All details of the present study relate to the two products. In 2014, a worldwide turnover of around 24.4 billion US$ was achieved with PA6 and PA66. Ceresana expects annual revenues to increase by 3.1% p.a. to approximately 31.2 billion US$ until 2022.

Fibers and filaments vs. Technical plastic

The most important sales market for PA6 and PA66 is the production of fibers and filaments. Polyamide fibers are synthetic fibers and are considered to be especially tearing and abrasion-resistant and have a high elasticity and shape stability. PA6 and PA66 are used for the production of textiles and industrial filaments as well as for carpet and staple fibers. About 43% of global demand for PA6 and PA66 are used as technical plastic in a large number of different applications. Polyamide is mainly used in the transportation area, for example for brake hoses, plug connectors, battery cases, oil sumps, switches and handles. The highest growth rate between 2014 and 2022 we forecast for the second largest application area electrical applications and electronics that is likely to see market volume increase by 4.3% p.a. during the next eight years.

Regional differences: Polyamide 6 and Polyamide 66

At a global level, PA6 accounted for the largest part of total demand for polyamide. This market is dominated by the Asia-Pacific region that reached a global demand of approx. 68% in 2014. Here, mainly the high demand for PA6 in the segment textile filaments plays an important role: In Asia, around 1.5 million tonnes account for this application. While global demand for PA6 is mainly determined by the segments textile and industrial filaments, technical applicants account for almost 56% of demand for PA66 - in Western Europe even 71%.

The Study in Brief:

Chapter 1 provides a presentation and analysis of the global market for polyamide (PA6 and PA66), including forecasts up to 2022: revenues development as well as production and demand volumes are analyzed.

Chapter 2 offers a detailed analysis of the applications for polyamide (PA6 and PA66). The segments transportation, electrical applications and electronics, consumer goods, packaging and foils, other technical applications, textile filaments, industrial filaments as well as other fiber applications are examined.

In Chapter 4, the product types PA6 and PA66 are examined individually. Development of demand as well as the application areas for the world and the regions Western Europe, Eastern Europe, North America, South America and Asia-Pacific are examined.

Chapter 5 provides useful company profiles of the largest producers of PA – clearly arranged according to contact details, turnover, profit, product range, production sites, capacities and profile summary.
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In 2014, about X tonnes of polyamide 6 and polyamide 66 were produced in Eastern Europe. For the upcoming eight years, we forecast a continuous increase of Eastern European polyamide output at average rates of X% per year. Major producer of polyamide in Eastern Europe is Russia. In 2014, almost half of the total production with a volume of X tonnes was produced there.

### Polyamide 6
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### Polyamide 66
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### Total PA6 & PA66
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### PA6 & PA66 – Technical
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### PA6 & PA66 – Fibers
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### Total PA6 & PA66
- 2006: X
- 2008: X
- 2010: X
- 2012: X
- 2014: X
- 2016p: X
- 2018p: X
- 2020p: X
- 2022p: X

### Demand and Revenues - South Korea

Demand for polyamide in South Korea amounted to around X tonnes in 2014. Thus, demand fell by an average of X% p.a. since 2006. We expect demand in South Korea to increase again by X% per year to X tonnes by 2022. Polyamide revenues in South Korea amounted to around X million US$ in 2014. We forecast revenues of approx. X million US$ to be generated in 2022.

### Production – Eastern Europe

In 2014, about X tonnes of polyamide 6 and polyamide 66 were produced in Eastern Europe. For the upcoming eight years, we forecast a continuous increase of Eastern European polyamide output at average rates of X% per year. Major producer of polyamide in Eastern Europe is Russia. In 2014, almost half of the total production with a volume of X tonnes was produced there.

### Production in Eastern Europe

- Poland: X
- Russia: X
- Turkey: X
- Others: X

### Total
- X

### Production split by major countries

- Poland: X
- Russia: X
- Turkey: X
- Others: X

### Production of polyamide in Eastern Europe from 2006 to 2022

### Demand and Revenues - South Korea

- Demand and revenues of PA
- Demand for the individual product types (PA6 and PA66)
- Demand for PA split by technical and fiber quality
- Production, capacities and trade
- Demand split by applications

### Production – Eastern Europe

- Poland: X
- Russia: X
- Turkey: X
- Others: X

### Total
- X

### Production of polyamide in Eastern Europe from 2006 to 2022

### Production of polyamide in South Korea from 2006 to 2022

### Production of polyamide in South Korea from 2006 to 2022

### Production of polyamide in South Korea from 2006 to 2022

### Production of polyamide in South Korea from 2006 to 2022
3.1.1 Applications - Transportation

In 2014, around X million tonnes of polyamide were used for transportation (Graph). Thus, demand in this application area rose at an expected X% p.a. in future. Global demand is expected to amount to approx. X million tonnes in 2022.

Graph: Global demand for polyamide in transportation from 2006 to 2022 – split by regions

While demand will increase at only low growth rates in the industrialized regions Western Europe and North America in the next eight years, growth rates in all other regions are likely to be considerably higher; market volume will increase by between X% p.a. and X% per year. With X tonnes, Asia-Pacific had the highest demand of polyamide in 2014 (Table). Processors in Western Europe ranked second, followed by North America. At a significant distance followed demand recorded in Eastern Europe and South America. We expect demand for polyamide in the segment transportation to continue to develop at the favor of Asia-Pacific in the future. This region is projected to increase demand by X% p.a. until 2022.

Chapter 3: Demand per region and country split by the following applications:
- Transportation
- Electrical applications and electronics
- Consumer goods
- Packaging and films
- Other technical applications
- Textile filaments
- Industrial filaments
- Other fiber applications

Chapter 4: Demand for PA split by product types and their applications:
- Polyamid 6 (PA6)
- Polyamid 66 (PA66)

Graph: Global demand for PA66 from 2006 to 2022 – split by regions

Table: Global demand for PA66 from 2006 to 2022 – split by applications

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Ceresana
Mainaustr. 34, 78464 Constance, Germany
Tel: +49 7531 94293 - 0 Fax: - 27
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- Synthetic Rubber - World
- Thermoplastic Elastomers - World
- Titanium Dioxide - World
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