

High Performance Polyamides – A Global Market Overview

The report reviews, analyzes and projects the global market for High Performance Polyamides for the period 2012-2022

Published: October 2016

Report Code: CP043

Pages: 440

Charts: 631

Price: \$4950 Single User License, \$7650 Enterprise License

SUMMARY

Bridging cost and performance gap between engineering polyamides and other high performance polymers, high performance polyamides (HPPA) are widely used in automotive, electrical & electronics and various other demanding applications. High performance polyamides withstand extreme conditions such as long term exposure to heat, chemicals, and moisture. Compared to standard polyamide technologies including PA 6 and PA 66, HPPAs can offer improved dimensional stability due lower moisture absorption.

Mega trends in the automotive, electrical & electronics and oil & gas sectors are expected to spur the demand for high performance polyamides in the future. In the automotive industry, growth is supported by metal replacement to reduce vehicle weight, while thinner and smaller components in electronic devices. Further, the development of unconventional oil and gas technologies to spur the demand for the specialty polyamides.

Global volume consumption of High Performance Polyamides is forecast to be 217.4 thousand metric tons in 2016 and is projected to reach 271.1 thousand metric tons by 2022 at a CAGR of 3.7% between the two years. Asia-Pacific is the largest volume consumer of High Performance Polyamides, forecast to be 105.4 thousand metric tons (48.5% share) in 2016, which is also expected to record the fastest 2016-2022 CAGR of 4.6% and reach a projected 138 thousand metric tons by 2022.

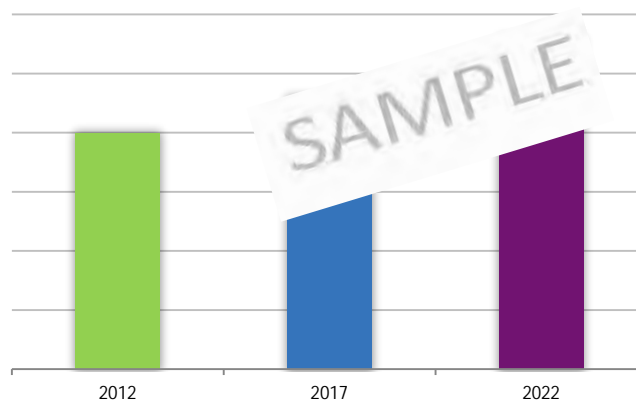
This report includes high temperature polyamides within the definition of high performance polyamides as well as other specialty polyamides which display outstanding characteristics such as very low moisture absorption, outstanding chemical resistance, toughness and strength. The report focuses on six different high performance polyamides namely polyamide 11 (PA 11), polyamide 12 (PA 12), polyamide 46 (PA 46), polyamide 9T (PA 9T), polyphthalamides (PPA) based on polyamide 6T (PA 6T) and polyarylamide (PARA) or polyamide MXD6 (PA MXD6).

The study also analyzes the key end-use sectors of high performance polyamides including Automotive & Transportation, Electrical & Electronics, Mechanical/Industrial, Medical & Healthcare and Others (such as Building & Construction, Aerospace, Consumer Goods, Medical

etc.). The global markets for the above mentioned product types and end-use sectors are analyzed in terms of volume in metric tons and value in USD for 2012-2022 analysis period for the United States, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 8 more independent countries across Europe – France, Germany, Italy and the United Kingdom; Asia-Pacific – China, India, Japan and South Korea. This report also provides the comprehensive market analysis of each polyamide type by end-use sector for the global markets including the United States and key regions in Europe, Asia-Pacific and Rest of World.

This 440 page global High Performance Polyamides market report includes 631 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 12 key global players across the United States – 1; Europe – 5 and Asia-Pacific – 6. The research also provides the listing of the companies engaged in manufacturing, compounding, processing and supply of high performance polyamides. The global list of companies covers the address, contact numbers and the website addresses of 81 companies.

Global High Performance Polyamides Market Analysis (2012-2022) in Value (USD Million)



SAMPLE COMPANY PROFILE

ARKEMA GROUP (FRANCE)

420 rue d'Estienne d'Orves, 92705 Colombes Cedex, France
 Phone: 33-0-1-49-00-80-80, Fax: 33-1-49-00-83-96
 Website: www.arkema.com

Business Overview

Cedex, France-based Arkema Group is a leading global producer of polyamides 11 and 12, copolyamide hot melt adhesives; and polyvinylidene fluoride (PVDF) resins. The group is engaged in the development and supply of high value added products and services to over 50 nations across the world (mainly in North America, Europe, and Asia). Arkema performs its operations through its High Performance Materials, Industrial Specialties, and Coating Solutions business segments.

Segment Analysis

Business Segment	Operation Particulars
High Performance Materials	Engaged in developing high performance and high value added bonding and sealing solutions, including specialty adhesives (Bostik) for the non-woven, industrial, construction and consumer markets; technical polymers , including specialty polyamides , and fluoropolymers ; and Performance Additives, encompassing filtration and adsorption (CECA), organic peroxides, and UV curing (photocure) resins (Sartomer)
Industrial Specialties	Engaged in producing thiochemicals; Fluorogases including Forane® brand fluorochemicals; PMMA (Atluglas International), and hydrogen peroxide
Coating Solutions	Engaged in manufacturing acrylics, and coating resins and additives

Arkema's Technical Polymers business division is engaged in the manufacture and marketing of specialty polyamides and fluoropolymers for use in various markets comprising automotive, coating, chemical engineering, electrical wire and cables, new energies, oil and gas extraction, and water filtration. The specialty polyamides (PA) product line offered by the group encompasses high performance polyamides such as Rilsan® PA 11, Rilsamid® PA 12, Rilsan® T PA 10.10, Rilsan® HT PPA, Rilsan® S PA 6.10 and Hiprolon® PA 6.10, PA 6.12, PA 10.10, PA 10.12. Arkema's specialty polyamides production facilities are located in Serquigny, France; Birdsboro, USA and Changshu, China.

Product Portfolio

Product	Particulars
Rilsan® PA11	Produced from castor oil, Rilsan® PA11 is a high-performance polymer of 100% renewable origin.
Rilsamid® PA 12	Polyamide 12
Rilsan® HT	Rilsan® HT high-temperature polyphthalamide (PPA)
Rilsan® T	Derived from castor oil, Rilsan® T polyamide 10.10 is based on a 100% biobased source.

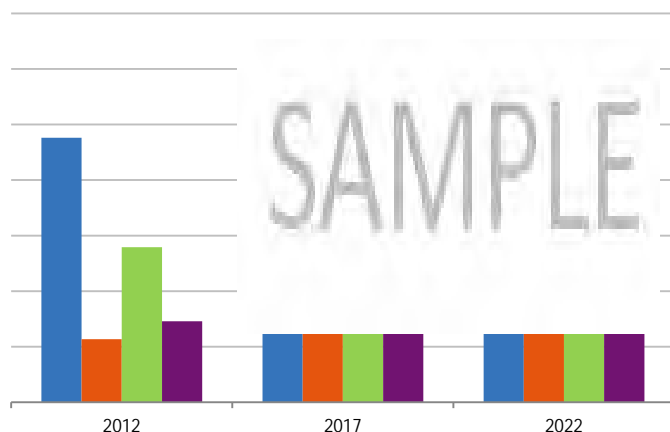
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SAMPLE TABLE/CHART

Glance at 2017 Global High Performance Polyamides Volume Market Share (%) by Geographic Region - United States, Europe, Asia-Pacific and Rest of World



European High Performance Polyamides Market Analysis (2012-2022) by End-Use Sector - Automotive, Electrical & Electronics, Mechanical/Industrial and Other in Metric Tons



KEY PLAYERS PROFILED

- Arkema Group
- E. I. Du Pont De Nemours and Company
- EMS-Chemie Holding AG
- Evonik Industries AG
- Kuraray Co., Ltd.
- Mitsubishi Gas Chemical Company, Inc.
- Mitsui Chemicals, Inc.
- Royal DSM N.V.
- Solvay SA
- Toyobo Co., Ltd.
- Ube Industries, Ltd.
- Zhejiang NHU Co., Ltd.

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