

High Performance Polyamides – A Global Market Overview

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Abstracts

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 absorbsion.

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.

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Arkema Group (France)

E. I. Du Pont De Nemours and Company (United States)

EMS-Chemie Holding AG (Switzerland)
Evonik Industries AG (Germany)
Kuraray Co., Ltd. (Japan)
Mitsubishi Gas Chemical Company, Inc. (Japan)
Mitsui Chemicals, Inc. (Japan)
Royal DSM N.V. (The Netherlands)
Solvay SA (Belgium)
Toyobo Co., Ltd. (Japan)
Ube Industries, Ltd. (Japan)
Zhejiang NHU Co., Ltd. (China)

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New Single-Use Electrocautery Instrument for Adenoid and Tonsil Surgeries Used
Solvay's Ixef GS-1022 PARA Resin
Arkema Invested ?10 Million to Broaden its Specialty Polyamides Production Capacities
Arkema and HP form 3D Printing Materials Development Pact
DuPont Established its Largest Compounding Facility
Launch of Royal DSM's Stanyl HGR1 for Frictional Torque Reduction in Automobile Engine Timing Systems
Solvay Offered its Amodel PPA for the Polimotor 2 Water Inlet / Outlet Application
European Plastics Innovation Award received by Evonik's Resource Efficiency Segment

50% RISE IN THE ANNUAL PRODUCTION CAPACITY OF EVONIK'S VESTOSINT PA12 POWDER

New Line of Rilsan Fine Powders Added to Arkema's Bio-based Polyamide Coating Powders Portfolio for Outdoor Furniture
Establishment of DuPont's First Zytel HTN Polymer Production Unit in Europe
Selection of DSM's Stanyl PA46 for Use in New Turbocharged Petrol Engine Components
EMS-GRIVORY Offered Grilamid L20A HL NZ Special PA12 Grade for Ski Sports
Grivory HT2VS-HH, Novel range of High Heat Polyamides from EMS-GRIVORY
Valeo Schalter und Sensoren GmbH Selected Evonik's VESTAMID L1930 PA12 for the Gear Drive of the Steering Angle Sensor
DSM Engineering Plastics Solidified its Position in the EMEA Market
Strong Compatibility with Ford's New ULV 25 ATF Exhibited by Solvay High Performance Polymer Grades
USB Type-C Connectors Molded Using DuPont Zytel HTN FR52 NH Polyamide Resin

Automotives Installed with Plastic-rubber Technology-based Cooling Components Made of Special PPA VESTAMID HTplus R1033 and HNBR Elastomer

Solvay's New Deal with Chase Plastics to Distribute High-Performance Amodel PPA Resins

Addition of Five New Glass Fiber-Reinforced Grades of Amodel AE-8900 Series by Solvay for Automotive Electronics Use

Addition of LFT Technology Complemented Solvay Specialty Polymers' High Performance Lightweight Materials Portfolio

Instratek's STAPIX Staple Fixation System Components Molded Using Solvay's Ixef 1022 PARA Resin

VESTAMID HTplus M1933 PPA Outperformed Other Competitive Polymers with Outstanding Electrical RTI

Toyota MIRAI FCV Component Used Kuraray's GENESTAR PA 9T Resin

Evonik's VESTAMID HTplus PPA Used in the Manufacture of HELLA Laser-Welded Actuator Housing Components

Launch of Evonik's VESTAMID HTplus M1035 P1 for Automotive Use

NSF Certification Enabled the Use of Amodel PPA Resin Grades of Solvay in Food Service Industry

DuPont Increased its Zytel HTN PPA Production to Meet the Rising Global Market Demand

Launch of EMS-GRIVORY's New Grivory HT Products with Outstanding Hydrolysis Resistance

Evonik's VESTAMID Molding Compounds for Rail and Automotive Industry

Osram Chose Royal DSM's Stanyl TC PA 46 in the Heat Sinks of its LED Downlights Distribution Pacts Formed by DSM to Reinforce its Footprint in Mexico

World's First High-Heat Plastic Air Intake Manifold with Integrated Charge Air Cooler Utilized DSM's Stanyl Diablo PA46

Evonik Increased PA12 Production Capacity at its Marl Facility by 5,000 MTs

Solvay High Performance Polymers Earned Regulatory Approvals for Use in Food Contact and Drinking Water Applications

DuPont's Zytel HTN PPA Resin Ideal for Engine Coolant Component

EMS-GRIVORY Unveils New line Grilamid FWA polyamide grades

Solvay's Ixef Polyarylamide (PARA) Resin used in NovaTract Disposable Laparoscopic Retraction System

Arkema and Addiplast Join Hands to Develop New Polyamide Compounds

EMS-GRIVORY Introduces New Polyphthalamide Series Grivory HT2VS-HH

Evonik Inks Distribution Agreement with Nexeo

Arkema Introduces Rilsan HT Polymer

Kuraray Expands GENESTAR Polyamide Resin Production Capacity

Evonik Industries Starts γ -amino lauric acid (ALS) Plant in Slovakia
Arkema SA Acquires 25% Stake in Ihstedu Agrochem Company
MDB and EMS-Grivory Jointly Develop New Grivory HT Polyamides
Arkema Introduces a New Line of Specialty Polyamides MED Grade

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