

High Performance Polyamides Market by Polyamide Type (PA 11, PA 12, PA 46, PA 9T), Manufacturing Process (Injection & Blow Molding), End-use Industry (Automotive, Electrical & Electronics, Industrial, Medical), and Region - Global Forecast to 2026

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Abstracts

The HPPAs market size is projected to grow from USD 2.8 billion in 2021 to USD 4.0 billion by 2026, at a CAGR of 7.4% between 2021 and 2026. HPPAs are demanded in various end-use industries including automotive, electrical & electronics, industrial, medical, and others; due to its advantages properties such as high durability, temperature resistance, lightweight, and highly stiff. However, global pandemic disease COVID-19 has disrupted the operations of HPPAs consumer industries which has decreased the demand for HPPAs in 2020.

“PA 46 Polyamide Type is the fastest-growing Polyamide Type of HPPAs, in terms of value.”

PA 46 is derived by polycondensation of adipic acid and 1,4-diaminobutane. Diaminobutane is synthesized from acrylonitrile and hydrogen cyanide. It has the lowest methylene-to-amide group ratio; hence, the highest crystallinity of the commercial PA. PA 46 is a resin that has a melting point as high as 278°C to 308°C. It is primarily used in higher temperature ranges where stiffness, creep resistance, continuous heat stability, and fatigue strength are required. It is suitable for applications involving sliding and wearing parts exposed to high temperatures. It is also widely used as a replacement for metal in industrial and transportation industries, which require high temperatures. The increasing demand from multiple applications is expected to drive the PA 46 HPPAs market during the forecasted period.

“Injection Molding Manufacturing Process is the fastest-growing manufacturing process type of HPPAs, in terms of value.”

HPPAs are injection molded to form components that are strong, have high mechanical properties, and show good chemical and thermal resistance. Bushings, gears, and bearings are some common automotive parts that are produced using injection molding. It is the most commonly used process and is suitable for mass production. The increasing demand for HPPAs from automotive, electrical & electronics, industrial, medical, and other industries are expected to drive the market during the forecast period.

“Medical is the fastest-growing end-use industry of HPPAs, in terms of value.”

Medical is the fastest-growing end-use industry of the HPPAs market. HPPAs provide high chemical, thermal, and electrical resistance and minimal moisture absorption properties, which makes them highly efficient in medical applications. HPPAs are used in pharmaceutical, biotechnology, surgical equipment, diagnostics, and dental verticals. They are extensively used as an alternative to conventional materials such as metals PE and PP in the manufacturing of medical equipment and devices such as sizing trials for knee and hip replacements and fixation devices. Under medical, the pharmaceutical and biotechnological industry uses HPPAs for their high design flexibility in several applications, such as components for sample changers, valve housings and nozzles for fluid distribution, spectrometer parts for chromatography systems, and wear parts for pill and tablet production. Surgical equipment such as handles and grips for instrumentation, sizing trials for knee and hip replacement, fixation device, endoscopic housings and eyepieces are manufactured using HPPAs due to their high chemical resistance properties.

“APAC is the fastest-growing HPPAs market.”

APAC is projected to register the highest CAGR in terms of value in the global HPPAs market during the forecast period. The growth of the HPPAs market in this region is supported by the recovery in end-use industries, the advancement of industrial technology solutions, and increasing need of recyclable and high-performance materials.

Due to COVID-19, HPPAs industry and numerous companies have halted their production sites across various countries that has led to reduced demand from end-use industries, which affected the HPPAs demand in APAC countries. The recovery in the

end-use industries with restoration in the supply chain would drive the HPPAs demand during the forecast period.

This study has been validated through primaries conducted with various industry experts, globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 20%, and Others- 30%

By Region- North America- 20%, Europe- 50%, APAC- 15%, South America-5%, MEA-10%,

The report provides a comprehensive analysis of company profiles listed below:

Royal DSM NV (Netherlands)

E.I. du Pont de Nemours and Company (US)

SABIC (Saudi Arabia)

BASF SE (Germany)

Evonik (Germany)

Arkema SA (France)

Saudi Arabia Basic Industries Corporation (Saudi Arabia)

Lanxess (Germany)

Toray Industries Inc. (Japan)

Research Coverage

This report covers the global HPPAs market and forecasts the market size until 2026.

High Performance Polyamides Market by Polyamide Type (PA 11, PA 12, PA 46, PA 9T), Manufacturing Process (Inje...

The report includes the market segmentation –Polyamide Type (PA 11, PA 12, PA 46, PA 9T, PARA, PPA, and others), Manufacturing Process (Injection Molding, Blow Molding), End-use Industry (Automotive, Electrical & Electronics, Industrial, Medical, and Others) and Region (Europe, North America, APAC, South America, and MEA). Porter's Five Forces analysis, along with the drivers, restraints, opportunities, and challenges, are discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global HPPAs market.

Key benefits of buying the report:

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global HPPAs market comprehensively and provides the closest approximations of the revenues for the overall market and the sub-segments across different verticals and regions.
2. The report helps stakeholders understand the pulse of the HPPAs market and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to better their position in their businesses. The competitive landscape section includes the competitor ecosystem, new product development, agreement, and acquisitions.

Reasons to buy the report:

The report will help market leaders/new entrants in this market by providing them with the closest approximations of the revenues for the overall HPPAs market and the sub-segments. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

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*Details on Business Overview, Products Offered, Deals, SWOT Analysis, Winning imperatives, MnM View, Strategic choices made, Weakness and competitive threats might not be captured in case of unlisted companies.

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