

Global Polyamide 6 Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-User Industries, Sales Channel, Regional Demand, Company Share, 2015-2035

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Abstracts

The global Polyamide 6 market has reached a consumption of approximately 3900 thousand tonnes in 2021 and is expected to grow at a CAGR of 4.57% during the forecast period until 2035.

Polyamide 6, also known as Nylon 6, is a semi-crystalline polymer synthesized by the polymerization of caprolactam (C₆H₁₁NO). Caprolactam works as a monomer during this reaction. The process involves heating caprolactam at 553K in the presence of inert Nitrogen. In the reaction, ring-opening of caprolactam occurs to form Polyamide 6. Polyamide 6 displays high elasticity, tensile strength, and durability. Furthermore, its stability under high pressure and resistance to oils, chemicals, and bases make it a perfect substitute to conventional rubber.

Polyamide 6 is resistant to abrasion, electric current resistance properties, and flame resistance due to which it is utilized to make parts of electronics such as, computer motherboards, terminal blocks, circuit breakers, enclosures for power tools, connectors for mobile phones. Moreover, Polyamide 6 is used in the automotive industry to manufacture lightweight vehicle parts such as fuel caps, doors, exterior mirrors, wheel coverings, airbag containers, and hydraulic clutch lines. Other applications of Polyamide 6 include fishing rod strings, musical instruments, fibers, machine guards, replacement parts, seals, switchgear, carpets, fabric, curtain, upholstery items, ropes & nets, painting brushes, conveyer belts, racket strings, tents, and others.

The applications of Polyamide 6 in the automotives, textiles, and electronics' industries

are driving the Polyamide 6 market. It is due to excellent mechanical properties, resistant to abrasion and insulation properties, Polyamide 6 has a wide array of applications in these industries. In 2021, the automotive sector consumed approximately 30% of the global Polyamide 6 market and is expected to dominate the market in the forecast period. The Polyamide 6 is expected to experience a tremendous growth and reach a value of approximately USD 27 billion by the forecast period of 2035.

Across the globe, Asia Pacific is dominating as a consumer of the Polyamide 6 market. The Polyamide 6 demand by the Asia Pacific is primarily driven by its properties like resistance to abrasion and chemicals and find its application in the automotive, electronics and electrical industry. Europe stands as the second largest consumer of Polyamide 6 market and is most likely to retain its position in the forecast period. On the global level, Asia Pacific has the largest number of production sites of Polyamide 6. In 2021, Asia Pacific contributed about 30% of the global Polyamide 6 market.

Based on the end-user industry, the global Polyamide 6 market is segmented into Automotive, Electricals and Electronics, Textiles, General Industries, and others. However, the Automotive industry is the dominating sector that consumed approximately with a market share of about 30% in 2021. Polyamide 6 is a more affordable option compared to metals to manufacture automobiles. Therefore, the market for Polyamide 6 is anticipated to propel from the increased need for light-weight automobiles. The Electricals and Electronics Industry and the Textile Industry also holds prominent market share of Polyamide 6 and are anticipated to fuel the Polyamide 6 demand in the coming years.

Major players in the production of Global Polyamide 6 are LIBOLON, Highshung Holding Group, BASF SE, Formosa Chemicals & Fibre Corporation, LANXESS, Dow Chemical Company, KuibyshevAzot, and others.

Years considered for this report:

Historical Period: 2015- 2021

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2023-2035

Objective of the Study:

To assess the demand-supply scenario of Polyamide 6 which covers production, demand, and supply of Polyamide 6 market in the globe.

To analyse and forecast the market size of Polyamide 6

To classify and forecast Global Polyamide 6 market based on end-use and regional distribution.

To examine competitive developments such as expansions, new product launches, mergers & acquisitions, etc., of Polyamide 6 market in the globe.

To extract data for Global Polyamide 6 market, primary research surveys were conducted with Polyamide 6 manufacturers, suppliers, distributors, wholesalers and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for Global Polyamide 6 market over the coming years.

ChemAnalyst calculated Polyamide 6 demand in the globe by analyzing the historical data and demand forecast which was carried out considering the consumption of raw material to produce Polyamide 6. ChemAnalyst sourced these values from industry experts and company representatives and externally validated through analyzing historical sales data of respective manufacturers to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

Polyamide 6 manufacturers and other stakeholders

Organizations, forums and alliances related to Polyamide 6

distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Polyamide 6s manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years (next two to five years), thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, Global Polyamide 6 market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-Use: Automotive, Electricals and Electronics, Textiles, General Industries, and others.

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: North America, Europe, Asia Pacific, Middle East and Africa, and South America.

Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

Contents

1. CAPACITY BY COMPANY

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Polyamide 6.

2. CAPACITY BY LOCATION

To better understand the regional supply of Polyamide 6 by analyzing its manufacturers' location-based capacity.

3. PRODUCTION BY COMPANY

Study the historical annual production of Polyamide 6 by the leading players and forecast how it will grow in the coming years.

4. DEMAND BY END- USE

Discover which end-user industry (Automotive, Electricals and Electronics, Textiles, General Industries, and others) are creating a market and the forecast for the growth of the Polyamide 6 market.

5. DEMAND BY REGION

Analyzing the change in demand of Polyamide 6 in different regions, i.e., North America, Europe, Asia Pacific, Middle East and Africa, and South America, that can direct you in mapping the regional demand.

6. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)

Multiple channels are used to sell Polyamide 6. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

7. DEMAND-SUPPLY GAP

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Polyamide 6.

8. COMPANY SHARE

Figure out what proportion of the market share of Polyamide 6 is currently held by leading players across the globe.

9. PRICING ANALYSIS & FORECAST

Analyze historical prices since 2015 & Forecast on three months rolling period for next 12 months.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

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