

Global Caprolactam Market Outlook to 2027

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Abstracts

Caprolactam is a solid organic compound and is a lactam of caproic acid, it exhibits superior properties, including high strength, abrasion resistance, chemical & oil resistance, and low moisture absorbency of nylon fibers and resins. According to BlueQuark Research & Consulting, the global Caprolactam market is expected to witness a significant growth rate during the forecasted period. Factors like growing demand for the nylon six fibers due to the increasing demand from the textile and carpets industry are expected to register a high growth rate during the forecasted period. Further, the growing electrical & electronics and automotive industries due to the lightweight vehicles are expected to drive the Caprolactam Market in the forecasted period. Furthermore, the increasing demand for Caprolactam in engineering plastics and film applications is expected to drive the market. Due to its properties like impact, high temperature, and abrasion resistance, an excellent balance of strength and resistance to bases, it extensively replaces metal-based applications, which is the primary factor driving the caprolactam market growth during the forecast period. However, certain restraints and challenges are faced, hindering the market growth. Moisture absorption that degrades the properties of Caprolactam is likely to act as a market restraint.

Caprolactam is used to manufacture nylon 6-6 fibers, which is further used in textile fibers, carpets, and industrial fibers. Nylon 6 fibers are used in various applications like toothbrushes, raincoats, sportswear, bed sheets, curtains, ropes, racket strings, threads, and sleeping bags.

The nylon six fibers segment dominated the market. It is awaited to register a high growth rate during the forecasted period due to the increasing need from the textile and carpets industry worldwide. The rising focus on recycling Caprolactam is likely to act as a growth opportunity in the future. Production of nylon six fibers is one of the significant applications of Caprolactam, accounting for over 56% of the caprolactam market share.

Nylon 6 fiber are wrinkle-proof and highly resistant to abrasion and chemicals, like acids and alkalis. It is easy to dye the fiber, primarily manufacturing deep and bright shades while providing high strength and lightweight. Nylon 6 fibers have varied applications in sportswear, hosiery, swimwear, and fashion wear. They have considerable stretch fit properties when merged with spandex fibers. Apart from clothing, nylon six fibers have other industrial applications, like tarps, fishing nets, and tarpaulins. They are used in packaging applications with good mechanical, optical, and barrier properties. Nylon 6 fibers are extensively used to produce fishing nets, tire yarns, sewing threads, industrial drive-belts, etc. Nylon 6 fibers are unwrinkled and dimensionally stable and have characteristics like high elasticity and resistance to blight and moths, due to which it is widely used in the textile industry. Textile yarn is commonly utilized in numerous applications like apparel and house furnishing. Increasing demand for textile yarn coupled with the use of nylon six fibers in bedspreads, upholstery, curtains, and carpets is anticipated to positively impact the industry over the next few years. Due to high tensile strength, elasticity, scrub resistance, and heat resistance, growing nylon fabrics demand is predicted to impact the industry entirely. Though the nylon six fiber segment is saturated in western countries, it is considerably increasing in the Asian region, particularly in China. Due to competition from other materials, like nylon 66 and polyester, the nylon six segment's growth is anticipated to be sluggish during the forecasted period.

The Asia-Pacific region is predicted to be the largest market for caprolactam Asia over the forecasted period. Especially in India and China, rapid industrialization has led to various automotive and appliance manufacturing plants; it is likely to influence the industry positively. The key end-users of Caprolactam are engineering plastics, carpet fibers, industrial yarn, textile yarn, and staple fibers. The automotive industry is the leading market for Nylon resin and compounds due to its excellent chemical resistance, heat resistance, tensile strength, abrasion resistance, and more. Nylon 6 is widely utilized in the automotive sector in under the hood, chassis, exterior, and interior applications. Nylon 6 reinforced compounds are being worn for many metal replacement applications in the car engine components like intake manifolds, gears, bearings, and more, which is expected to increase the demand for thermoset resin during the forecast period. New generation vehicles are based on lightweight and robust structures of different advanced materials. These advanced materials are used in various vehicle parts, and these advanced materials and plastics replace the metal usage to reduce the vehicle's total weight. Polyamide 6 is one of the materials for automotive weight reduction solutions, and the weight reduction is made to reduce fuel consumption in the vehicle, ultimately resulting in low CO₂ emissions. The polyamide parts are lightweight and offer better dominance than the metal parts. Another significant aspect of replacing

metal parts with plastic material is the ease of mass production and continuity of manufacture. Plastic part can be injection molded and extruded. When the design is finalized for a particular position, mass production and achieving break-even through economies of scale is comparatively easy. In addition, outsourcing these parts such as wheel rims and dashboards covers it easy to avoid factory overheads and a resultant decrease in the price of automobiles. Moreover, the ongoing research and development primarily focused on recycling Caprolactam will likely provide lucrative opportunities for the market.

The global Caprolactam market is partially fragmented. The primary market's key players are Sumitomo Chemical Co., Ltd., UBE Industries, Ltd., DSM, Capro Co., China Petrochemical Development Corporation, and LANXESS AG.

In October 2018, DSM completed the sale of Fibrant's caprolactam business to Highsun Holdings Group Ltd.

In August 2019, Hengyi Petrochemical, a china-based petrochemical manufacturer, announced the completion of 400KT/year of Caprolectum Project. The company had invested approximately USD 375 million in the project, and shortly they will start production.

The Global Caprolactam Market report provides deep insight into the Caprolactam market's current and future state across various regions. The study comprehensively analyzes the Caprolactam market by segmenting based on Raw Material (Phenol, Cyclohexane, Toluene, and Other Raw Materials), End-product (Nylon 6 Resins, Nylon 6 Fibers, and Other End Products), End-User Industry (Industrial Yarns, Engineering Resins & Films, Textiles & Carpets, and Other End User Industries) and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers & includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies' profiles, including their market shares and projects.

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