

Nylon 66 Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-06-28 | 181 pages | EMR Inc.

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Report description:

The global nylon 66 market size reached around USD 18.66 Billion in 2024. The market is projected to grow at a CAGR of 2.90% between 2025 and 2034 to reach nearly USD 24.84 Billion by 2034. The market growth can be attributed to the growing demand for nylon 66 in the automotive and textile industries. Increasing investments into the development of bio-based nylon 66 is favourably shaping the market dynamics, while the incorporation of functional additives is leading to increasing innovation in the market.

Global Nylon 66 Market Growth

The growing production and demand for consumer electronics are boosting the nylon 66 market revenue. Nylon 66 is extensively used in the production of electrical housings to protect internal electronic components from damage. It is also used to produce connectors and breakers and serves as an insulating material on wires and cables. In 2021, the demand for electronics items surged significantly, with computers, smartphones, and TV sets together accounting for USD 880 billion of the industry's worth. In 2022, these categories recorded a year-on-year growth rate of 34%, 1%, and 12%.

Rapid technological advancements continue to drive the demand for nylon 66 for niche applications, such as medical implants, 3D printers, sporting goods, and aerospace components. This is creating a favourable nylon 66 market outlook. By increasing their investments in research and development initiatives, companies can differentiate their product offerings and garner a substantial portion of the market share in the coming years.

Key Trends and Developments

Rising applications of nylon 66 in the automotive industry; growing emphasis on sustainability; the inclusion of functional additives in nylon 66; and the surging trend of Industry 4.0 and industrialisation are favouring the nylon 66 market growth.

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February 2024

Samsara Eco, an Australian environmental technology startup, pioneered the development of an enzymatically recycled nylon 66 product in collaboration with lululemon, an athletic apparel brand. The partnership is aimed at reducing waste production and carbon emissions by relying on enzymatic recycling processes that can repurpose nylon waste into durable and high-quality materials for textile producers.

August 2024

INVISTA Nylon Chemicals (China) Co. successfully expanded its nylon 6,6 polymer production site at Shanghai Chemical Industry Park (SCIP) with an investment of RMB 1.75 billion. This is aimed at doubling its capacity for nylon 66 production to 400,000 tons, hence driving the nylon 66 market development.

January 2023

Toray Industries, Inc. developed recycled nylon 66 by using additives and resins recovered by REFINVERSE Group, Inc. from silicone-coated airbag fabric scrap cuttings. The product, marketed as Ecouse AMILAN, resembles the mechanical properties and flowability of nylon 66 and is sustainable.

February 2020

BASF SE completed the acquisition of Solvay's nylon 66 business to support the growing demand for engineered plastics solutions in regions like the Asia Pacific, Latin America, and North America. With the rapid growth of e-mobility and autonomous driving solutions, the nylon 66 market value is expected to rise steadily.

Rising applications of nylon 66 in the automotive industry

Nylon 66 is extensively utilised in the automotive industry due to its chemical stability, heat resistance, durability, and high strength-to-weight ratio. This makes it ideal for manufacturing under-the-hood components, structural parts, engine components, and fuel-efficient vehicle systems.

Growing emphasis on sustainability

In recent years, the shift away from fossil fuels has increased the demand for bio-based nylon 66, which is derived from castor oil. This enables textile manufacturers to reduce their reliance on petroleum-based products while lowering their environmental impact, thereby promoting circular economic development.

Incorporation of functional additives in nylon 66

By incorporating conductive fillers, lubricants, flame retardants, and other additives into nylon 66, plastic formulators can enhance the functionality and performance of nylon 66 as per the user's requirements. For instance, flame retardants increase the fire resistance of nylon 66 and make it suitable for applications in the electronics, aerospace, and construction industries.

Growing trend of Industry 4.0 and rapid industrialisation

By using simulation software, CAD, and other digital tools along with additive manufacturing techniques, nylon 66 producers can

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rapidly prototype different product designs and introduce new models, thereby enhancing control over product quality and testing. The integration of additive manufacturing also allows producers to develop customised shapes, which offers great flexibility in meeting specific consumer requirements, thereby enhancing the overall efficiency of manufacturing.

Global Nylon 66 Market Trends

Increasing textile production

Rising global textile production is leading to the nylon 66 market expansion. The material boasts excellent properties, such as abrasion resistance, durability, and strength. It is extensively used in fabric production which is used for making high-performance textiles for industrial applications and sportswear. As global textile demand rises, particularly in the sports and fashion industry, the demand for nylon 66 is also expected to gain traction. Its versatile and lightweight nature makes it a preferred material for textile production, which is expected to sustain its demand in the coming years.

Rising automotive production

With automotive producers expected to bolster their manufacturing operations amid the rising demand, the nylon 66 market development is expected to surge. Nylon 66 can potentially reduce a vehicle's weight by 10% while improving its fuel efficiency by 5%-7%. This makes it an attractive raw material for vehicle producers and is expected to remain in demand over the forecast period.

Global Nylon 66 Industry Segmentation

The EMR's report titled "Global Nylon 66 Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Breakup by Grade

- Resin Grade
- Fiber Grade

Breakup by Application

- Automotive
- Electrical and Electronics
- Textile
- Consumer Goods
- Industrial and Machinery
- Packaging
- Others

Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America

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- Middle East and Africa

Global Nylon 66 Market Share

Based on region, the market is segmented into North America, Europe, the Asia Pacific, Latin America, and the Middle East and Africa. Over the forecast period of 2025-2034, the demand for nylon 66 in the Asia Pacific and Latin America is expected to grow at a CAGR of 3.2% and 3.1%, respectively. The growth of the nylon 66 market in these regions can be attributed to rapid industrialisation and the emergence of Industry 4.0.

Based on application, the market can be divided into automotive, electrical and electronics, textile, consumer goods, industrial and machinery, and packaging, among others. Over the forecast period of 2025-2034, the nylon 66 market development can be driven by its increasing demand for automotive, (3.7%) and electrical and electronics devices (3.4%) production.

Leading Companies in the Global Nylon 66 Market

Major market players are expanding their existing production capabilities and sustainably developing innovative products to gain a competitive edge. Moreover, they are making substantial investments in bio-based nylon 66 to increase their appeal among eco-conscious consumers. They are also forming strategic partnerships with textile companies to drive the nylon 66 market growth.

Ascend Performance Materials Holdings Inc.

Ascend Performance Materials Holdings Inc. was founded in 2009 and is headquartered in Texas, United States. It owns 3 of the world's biggest chemical processing plants and specialises in the production of nylon 66 and other plastics.

Asahi Kasei Corporation

Asahi Kasei Corporation was founded in May 1931 and is headquartered in Tokyo, Japan. It specialises in manufacturing healthcare products and innovative chemical materials.

Ensinger India Engineering Plastics Private Limited

Ensinger India Engineering Plastics Private Limited was founded in 2013 and is headquartered in Maharashtra, India. It is a part of Ensinger GmbH and manufactures high strength plastics (including nylon 66) for organisations like BHEL, ISRO, and HAL.

Celanese Corporation

Celanese Corporation was founded in 1918 and is headquartered in Texas, United States. It specialises in producing cellulose derivatives and engineered materials. In 2023, it reported net sales worth USD 10.9 billion.

Other players included in the nylon 66 market report are BASF SE, LANXESS Corp., LyondellBasell Industries Holdings B.V., Radici Partecipazioni SpA, EMS-CHEMIE HOLDING AG, and Koch, Inc. (INVISTA), among others.

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