

Nylon Market By Type (Nylon 6, Nylon 6,6, Nylon 6.10, Nylon 4.6, Nylon 11 and 12), By End-Use Industry (Automobile, Electrical and Electronics, Aerospace, Textile, Packaging, Others): Global Opportunity Analysis and Industry Forecast, 2023-2033

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Abstracts

The global nylon market was valued at \$31.3 billion in 2023, and is estimated to reach \$49.1 billion by 2033, growing at a CAGR of 4.6% from 2023 to 2033.

Nylon is a synthetic polymer renowned for its durability, elasticity, and resistance to abrasion and chemicals. Its types include Nylon 6, Nylon 6,6, Nylon 6,10, Nylon 4,6, Nylon 11, and Nylon 12, each with distinct properties derived from different combinations of monomers. Nylon 6 and Nylon 6,6 are commonly used in automotive parts, ropes, and textiles, while Nylon 6,10 is favored for flexible applications such as tubing and hoses due to its resistance to moisture. Nylon 4,6 offers high strength and stiffness, suitable for industrial components. Nylon 11 and Nylon 12, derived from renewable sources, excel in applications requiring flexibility and impact resistance, such as tubing and coatings. Overall, nylon finds wide-ranging applications across industries, including clothing, carpets, mechanical parts, and consumer goods, thanks to its versatility, strength-to-weight ratio, and ease of customization through dyeing and molding.

Nylon is increasingly used in automotive applications to reduce vehicle weight, thereby improving fuel efficiency and reducing emissions. As automakers strive to meet stringent regulatory standards for fuel economy and carbon emissions, the adoption of lightweight materials such as nylon in place of traditional metals becomes

essential. Nylon components, such as intake manifolds, engine covers, and structural reinforcements, contribute to overall weight reduction without compromising safety or performance.

Furthermore, nylon offers excellent mechanical properties, including high strength, impact resistance, and fatigue endurance, making it well-suited for demanding automotive applications. Components made from nylon polymers withstand harsh operating conditions, such as temperature extremes, chemical exposure, and mechanical stress, ensuring long-term durability and reliability. This durability contributes to extended service life and reduced maintenance costs for vehicle owners.

In addition, the inherent damping properties of nylon make it effective in reducing noise, vibration, and harshness (NVH) levels within vehicles. By incorporating nylon-based materials in interior and under-the-hood components, automakers mitigate unwanted vibrations and noise transmission, improving passenger comfort and vehicle refinement. Nylon-based insulating materials, such as sound-deadening panels and vibration-damping pads, contribute to a quieter and more comfortable driving experience.

Furthermore, nylon fibers have inherent moisture-wicking properties, allowing them to draw moisture away from the skin and evaporate it quickly. This moisture management capability helps keep the wearer dry and comfortable during physical activity or in humid conditions, making nylon fabrics popular for sportswear, athleisure apparel, and outdoor gear. In addition, nylon's quick-drying properties make it well-suited for swimwear, beachwear, and performance garments where rapid moisture evaporation is essential.

Also, nylon fabrics are lightweight and breathable, providing comfort and ventilation in warm weather or high-intensity activities. Nylon's open structure allows air circulation, preventing overheating and promoting breathability, making it suitable for use in activewear, summer clothing, and undergarments. The combination of lightweight construction and breathability enhances wearer comfort, mobility, and performance across various textile applications.

However, the demand for nylon is subject to cyclical fluctuations influenced by macroeconomic factors such as GDP growth, industrial output, and consumer spending. Economic downturns lead to reduced demand for nylon products across various end-use industries, affecting producers' revenues and profitability. Managing inventory levels and production capacity to align with demand fluctuations poses a significant

challenge for nylon manufacturers.

On the contrary, in the construction sector, nylon finds applications in a wide range of products, including ropes, cables, and insulation materials. Nylon ropes, known for their strength and durability, are commonly used in construction, maritime, and outdoor recreational activities. Moreover, nylon-based insulation materials offer superior thermal performance and fire resistance compared to traditional materials, making them a preferred choice for building envelopes and HVAC systems. As the construction industry adopts innovative materials and techniques to improve efficiency and sustainability, the demand for nylon-based products is expected to grow.

The nylon market is segmented on the basis of type, end-use industry, and region. On the basis of type, the market is categorized into nylon 6, nylon 6,6, nylon 6,10, nylon 4,6, and nylon 11 and 12. By end-use industry, the market is divided into automobile, electrical and electronics, aerospace, textile, packaging, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The global nylon market profiles leading players that include DuPont, BASF SE, Lanxess AG, NYCOA, Ascend Performance Materials LLC, DOMO Chemicals, SINOPEC, Formosa Chemicals & Fibre Corp., INVISTA, and SRM Polymers.

Other players involved in manufacturing of nylon include Shenma Industrial Co., Ltd., Radici Partecipazioni SpA, Ashley Polymers Inc., Toray, Ube Industries Ltd., Perfect Polymers, Nahata Plastics, Goodway Industries, Metoree, Casilon Polymers Pvt. Ltd., and others. The global nylon market report provides in-depth competitive analysis as well as profiles of these major players.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the nylon market analysis from 2023 to 2033 to identify the prevailing nylon market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business

decisions and strengthen their supplier-buyer network.

In-depth analysis of the nylon market segmentation assists
t%li%determine the prevailing market opportunities.

Major countries in each region are mapped according t%li%their
revenue contribution t%li%the global market.

Market player positioning facilitates benchmarking and provides a clear
understanding of the present position of the market players.

The report includes the analysis of the regional as well as global nylon market
trends, key players, market segments, application areas, and market growth
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Manufacturing Capacity

Investment Opportunities

Scenario Analysis & Growth Trend Comparison

Upcoming/New Entrant by Regions

Technology Trend Analysis

Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Type

Nylon 6

Nylon 6,6

Nylon 6.10

Nylon 4.6

Nylon 11 and 12

By End-Use Industry

Automobile

Electrical and Electronics

Aerospace

Textile

Packaging

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

DUPONT

BASF SE

Lanxess AG

NYCOA

Ascend Performance Materials LLC

Dom%li%Chemicals Corporation

sinopec

Formosa Chemicals & Fibre Corp.

INVISTA

Dom%li%Chemicals

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