

Global Bio-based High-temperature Nylon Market Growth 2026-2032

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Abstracts

The global Bio-based High-temperature Nylon market size is predicted to grow from US\$ 324 million in 2025 to US\$ 473 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

Bio-based high-temperature nylon is a high-performance polyamide material synthesized by copolymerizing renewable biomass monomers such as bio-based dibasic acids and bio-based diamines with petrochemical modified monomers. It integrates low-carbon environmental advantages and excellent comprehensive properties including high temperature resistance, high strength, chemical corrosion resistance and good dimensional stability. It can serve stably under long-term high-temperature working conditions, reduce reliance on petrochemical resources and carbon emissions, and is widely used in automotive parts, electronic and electrical components, industrial precision parts and other high-end fields, acting as a promising emerging engineering plastic to replace traditional fully petrochemical high-temperature nylon. In 2025, the global market size of bio-based high-temperature nylon reached 331 million US dollars.

Bio-based high-temperature nylon is a type of engineering plastic produced from renewable resources through bio-fermentation or chemical conversion, yielding high-performance nylon monomers that are then polymerized into heat-resistant, high-strength materials. Its industry chain can be analyzed in three segments: upstream, midstream, and downstream. In the upstream segment, primary raw materials such as sugarcane and corn starch are converted into monomers like bio-based adipic acid or ϵ -caprolactam. This segment offers environmental benefits by reducing reliance on fossil resources and lowering carbon emissions, but it faces challenges in raw material price volatility, supply stability, and strict requirements for monomer purity. The

midstream segment involves polymerization and processing, turning bio-based monomers into high-temperature nylon through injection molding, extrusion, or fiber spinning. Modifications such as glass fiber reinforcement, flame retardants, or mineral fillers enhance thermal resistance, mechanical properties, and long-term stability. Midstream competitiveness largely depends on mastering high-temperature performance and modification technologies. The downstream segment covers applications in automotive electronics, engine components, aerospace, precision machinery, and electronic enclosures, where performance, lightweight properties, and environmental friendliness are key. Bio-based high-temperature nylon benefits from sustainability and green credentials, driven by automotive lightweighting, energy efficiency, and green supply chain initiatives. Despite slightly higher costs, it demonstrates strong competitiveness and potential in high-end engineering plastic markets. The industry chain reflects a complete cycle from renewable raw materials to high-performance applications, representing a critical direction for future environmentally friendly, high-performance materials.

LP Information, Inc. (LPI) ' newest research report, the "Bio-based High-temperature Nylon Industry Forecast" looks at past sales and reviews total world Bio-based High-temperature Nylon sales in 2025, providing a comprehensive analysis by region and market sector of projected Bio-based High-temperature Nylon sales for 2026 through 2032. With Bio-based High-temperature Nylon sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-based High-temperature Nylon industry.

This Insight Report provides a comprehensive analysis of the global Bio-based High-temperature Nylon landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-based High-temperature Nylon portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bio-based High-temperature Nylon market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-based High-temperature Nylon and breaks down the forecast by Synthesis Route, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-based High-

temperature Nylon.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-based High-temperature Nylon market by product type, application, key manufacturers and key regions and countries.

Segmentation by Synthesis Route:

Oil-based route

Sugar-based route

Others

Segmentation by Modified Material:

Glass fiber reinforced bio-based PPA

Carbon fiber reinforced bio-based PPA

Mineral filled bio-based PPA

Unreinforced pure resin

Others

Segmentation by Application:

Automotive

Electronics

Marine

Construction

Aerospace

Consumer and Industrial Goods

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Arkema

BASF

DuPont

Syensqo

Evonik

Envalior

EMS Group

AKRO-PLASTIC

Radici Group

Toray

Asahi Kasei

Mitsubishi Chemical

Kingfa

Cathay Biotech

Zhejiang Xinli New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bio-based High-temperature Nylon market?

What factors are driving Bio-based High-temperature Nylon market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-based High-temperature Nylon market opportunities vary by end market size?

How does Bio-based High-temperature Nylon break out by Synthesis Route, by Application?

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