

Global Bio-based High-temperature Nylon Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G8B70E440F43EN.html>

Date: June 2026

Pages: 120

Price: US\$ 3,480.00 (Single User License)

ID: G8B70E440F43EN

Abstracts

According to our (Global Info Research) latest study, the global Bio-based High-temperature Nylon market size was valued at US\$ 341 million in 2025 and is forecast to a readjusted size of US\$ 489 million by 2032 with a CAGR of 5.3% during review period.

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.

This report is a detailed and comprehensive analysis for global Bio-based High-temperature Nylon market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Synthesis Route and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-based High-temperature Nylon market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based High-temperature Nylon market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based High-temperature Nylon market size and forecasts, by Synthesis Route and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based High-temperature Nylon market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-based High-temperature Nylon

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-based High-temperature Nylon market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arkema, BASF, DuPont, Syensqo, Evonik, Envalior, EMS Group, AKRO-PLASTIC, Radici Group, Toray, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bio-based High-temperature Nylon market is split by Synthesis Route and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Synthesis Route, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Synthesis Route

Oil-based route

Sugar-based route

Others

Market segment by Modified Material

- Glass fiber reinforced bio-based PPA
- Carbon fiber reinforced bio-based PPA
- Mineral filled bio-based PPA
- Unreinforced pure resin
- Others

Market segment by Application

- Automotive
- Electronics
- Marine
- Construction
- Aerospace
- Consumer and Industrial Goods
- Others

Major players covered

- Arkema
- BASF
- DuPont

Syensqo

Evonik

Envalior

EMS Group

AKRO-PLASTIC

Radici Group

Toray

Asahi Kasei

Mitsubishi Chemical

Kingfa

Cathay Biotech

Zhejiang Xinli New Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bio-based High-temperature Nylon product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based High-temperature Nylon, with price, sales quantity, revenue, and global market share of Bio-based High-temperature Nylon from 2021 to 2026.

Chapter 3, the Bio-based High-temperature Nylon competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based High-temperature Nylon breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Synthesis Route and by Application, with sales market share and growth rate by Synthesis Route, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Bio-based High-temperature Nylon market forecast, by regions, by Synthesis Route, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based High-temperature Nylon.

Chapter 14 and 15, to describe Bio-based High-temperature Nylon sales channel, distributors, customers, research findings and conclusion.

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