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Global Bio-based Polyamide 1010 (PA1010) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-based Polyamide 1010 (PA1010) market size is expected to reach $ 302 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global production of bio-based polyamide PA1010 was approximately 20,000 metric tons, with an average global market price of around $8,500 per metric ton. That year, total global production capacity for bio-based polyamide PA1010 reached approximately 30,000 metric tons, and the industry's average gross profit margin stood at about 27%. Bio-based polyamide PA1010 is a long-chain aliphatic polyamide formed through the polycondensation of 1,10-decanediamine and sebacic acid. In the designation "1010," the first "10" indicates that the diamine contains 10 carbon atoms, while the second "10" indicates that the diacid contains 10 carbon atoms. Both monomers for commercial PA1010 can typically be derived from castor oil through multi-step chemical conversion; consequently, the proportion of renewable raw materials can approach 100%, making it one of the engineering plastics with a very high bio-based content. PA1010 exhibits low water absorption, good dimensional stability, resistance to oil and chemicals, wear resistance, low-temperature toughness, and a broad processing window. Its performance characteristics bridge the gap between materials such as PA610, PA11, and PA12, making it suitable for injection molding, extrusion, fiber spinning, powder coating, and composite modification.

The upstream segment of the bio-based PA1010 value chain primarily encompasses castor cultivation, castor seed pressing, and castor oil refining, as well as the production of sebacic acid and 1,10-decanediamine. Sebacic acid is produced from the ricinoleic acid found in castor oil through hydrolysis, alkaline cleavage, and refining; 1,10-decanediamine is subsequently produced from sebacic acid via amidation,

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dehydration to form a dinitrile, and catalytic hydrogenation. The upstream sector also includes auxiliary materials such as hydrogen, catalysts, antioxidants, heat stabilizers, toughening agents, glass fibers, and flame retardants. Castor is a non-edible cash crop that can be grown in certain relatively arid regions, offering the advantage of not competing with food crops for land; however, factors such as castor seed prices, the geographic concentration of cultivation, monomer purity, and energy costs still influence the supply stability and production costs of PA1010. EMS-GRIVORY describes PA1010 as being produced through the polycondensation of decanediamine and sebacic acid derived from castor oil, noting that it is almost entirely based on renewable raw materials. The midstream segment of the value chain consists primarily of bio-based long-chain polyamide manufacturers, modified plastic enterprises, and material processors. During production, sebacdiamine and sebacic acid are first reacted in a near-equimolar ratio to form PA1010 nylon salt; the base resin is then obtained through high-temperature polycondensation, dehydration, viscosity enhancement, pelletization, and post-processing. Depending on downstream applications, additives such as glass fibers, carbon fibers, elastomers, heat stabilizers, antistatic agents, or flame retardants can be incorporated to produce grades suitable for injection molding, extrusion, monofilaments, tubing, powder processing, and 3D printing. Key technical focus areas in the midstream sector include monomer ratios, control of molecular weight and viscosity, color, gel content, batch-to-batch consistency, and long-term thermal aging performance. PA1010’s low moisture absorption and chemical resistance make it a suitable alternative to certain grades of PA6, PA66, and PA12; however, as its cost is generally higher than that of commodity nylons, commercial competition centers on high-performance and high bio-based content applications. Downstream applications for bio-based PA1010 span sectors such as automotive, electrical and electronics, industrial piping, cable sheathing, monofilaments, brush bristles, sporting goods, and consumer products. In the automotive industry, it is used for pneumatic tubing, fuel and cooling system components, quick connectors, cable protection layers, and chemically resistant structural parts. In the cable sector, it is utilized for specialized automotive cables, underground cables, and plastic optical fiber sheathing. In industrial and consumer markets, it finds application in hoses, industrial monofilaments, filtration materials, brush bristles, footwear materials, and sports equipment.

Bio-based polyamide PA1010 is characterized by low water absorption, excellent dimensional stability, resistance to oil and chemicals, low-temperature toughness, and high fatigue resistance, making it suitable for automotive fuel lines, pneumatic tubing, cooling circuits, cable sheathing, quick connectors, and chemical-resistant structural components. The proliferation of thermal management systems, battery cooling circuits, and high-voltage onboard cabling in new energy vehicles (NEVs) drives a growing

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demand for lightweight, hydrolysis-resistant, and long-term stable materials; this trend is expected to facilitate the substitution of PA1010 for PA12, PA11, and metal piping in specific applications. EMS-GRIVORY has publicly promoted the use of PA1010 in automotive and industrial fluid transfer lines, fuel lines, cable sheathing, and electronic device housings, highlighting its low moisture absorption, chemical resistance, and low-temperature impact resistance.

Both the sebacic acid and 1,10-decanediamine components of PA1010 can be derived from castor oil, with some commercial products achieving nearly 100% renewable feedstock content. As PA1010 can be processed via standard injection molding or extrusion without significant modifications to downstream operations, it enables customers in the automotive, cabling, sporting goods, and industrial sectors to reduce fossil-based carbon input, thereby facilitating its adoption in projects with specific targets regarding bio-based content, product carbon footprints, and sustainable procurement. Evonik designates VESTAMID® Terra DS as a 100% naturally derived PA1010, while EMS-GRIVORY positions Grilamid 1S as a long-chain polyamide with high to very high bio-based content.

Moving forward, PA1010 manufacturers will focus on developing specialized grades—including high-viscosity extrusion grades, hydrolysis-resistant tubing grades, low-outgassing cable grades, as well as glass-fiber reinforced, flame-retardant, toughened, wear-resistant, and antistatic variants—to meet the diverse requirements of the NEV, industrial hose, electrical/electronic, and precision structural component sectors. Given its combination of flexibility and high mechanical strength, PA1010 is also suitable for overmolding or multilayer co-extrusion with bio-based elastomers, creating composite structures that integrate a rigid structural layer with a flexible functional layer. EMS-GRIVORY has disclosed that PA1010 is suitable for injection molding and extrusion, and can be used in overmolding or sandwich molding with other bio-based materials; this reflects a shift in industry competition from the sale of individual resins to material combinations and application solutions.

Report Scope

This report studies the global Bio-based Polyamide 1010 (PA1010) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-based Polyamide 1010 (PA1010) and provides market size (US$ million) and Year-over-Year

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(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio-based Polyamide 1010 (PA1010) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-based Polyamide 1010 (PA1010) total production and demand, 2021-2032, (Tons)

Global Bio-based Polyamide 1010 (PA1010) total production value, 2021-2032, (USD Million)

Global Bio-based Polyamide 1010 (PA1010) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Bio-based Polyamide 1010 (PA1010) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Bio-based Polyamide 1010 (PA1010) domestic production, consumption, key domestic manufacturers and share

Global Bio-based Polyamide 1010 (PA1010) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Bio-based Polyamide 1010 (PA1010) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Bio-based Polyamide 1010 (PA1010) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Bio-based Polyamide 1010 (PA1010) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arkema, Evonik Industries, Celanese, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio-based Polyamide 1010 (PA1010) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bio-based Polyamide 1010 (PA1010) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Bio-based Polyamide 1010 (PA1010) Market, Segmentation by

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Type:

Polyamide PA1010 Base Resin Pellets

Modified Polyamide PA1010 Granules

Polyamide PA1010 Powder

Others

Global Bio-based Polyamide 1010 (PA1010) Market, Segmentation by Biobased Content:

Fully Polyamide PA1010

Partially Polyamide PA1010

Global Bio-based Polyamide 1010 (PA1010) Market, Segmentation by Modification Method:

Unreinforced Polyamide PA1010

Glass Fiber Reinforced Polyamide PA1010

Carbon Fiber Reinforced Polyamide PA1010

Flame Retardant Polyamide PA1010

Others

Global Bio-based Polyamide 1010 (PA1010) Market, Segmentation by Processing Technology:

Injection Molding Grade Polyamide PA1010

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Extrusion Grade Polyamide PA1010

Blow Molding Grade Polyamide PA1010

Global Bio-based Polyamide 1010 (PA1010) Market, Segmentation by Application:

Automotive Applications

Industrial Applications

Consumer Goods

Electronics

Others

Companies Profiled:

Arkema

Evonik Industries

Celanese

Key Questions Answered:

1. How big is the global Bio-based Polyamide 1010 (PA1010) market?
2. What is the demand of the global Bio-based Polyamide 1010 (PA1010) market?
3. What is the year over year growth of the global Bio-based Polyamide 1010 (PA1010) market?
4. What is the production and production value of the global Bio-based Polyamide 1010 (PA1010) market?
5. Who are the key producers in the global Bio-based Polyamide 1010 (PA1010) market?

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6. What are the growth factors driving the market demand?

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