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Global Bio-based Polyamide 1010 (PA1010) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Polyamide 1010 (PA1010) market size was valued at US$ 175 million in 2025 and is forecast to a readjusted size of US$ 302 million by 2032 with a CAGR of 8.0% during review period.

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;

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1,10-decanediamine is subsequently produced from sebacic acid via amidation, 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,

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and high-voltage onboard cabling in new energy vehicles (NEVs) drives a growing 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 is a detailed and comprehensive analysis for global Bio-based Polyamide 1010 (PA1010) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

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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 Polyamide 1010 (PA1010) market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Polyamide 1010 (PA1010) 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 Polyamide 1010 (PA1010) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Polyamide 1010 (PA1010) 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 Polyamide 1010 (PA1010)

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 Polyamide 1010 (PA1010) 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, Evonik Industries, Celanese, etc.

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

Bio-based Polyamide 1010 (PA1010) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Polyamide PA1010 Base Resin Pellets

Modified Polyamide PA1010 Granules

Polyamide PA1010 Powder

Others

Market segment by Biobased Content

Fully Polyamide PA1010

Partially Polyamide PA1010

Market segment by Modification Method

Unreinforced Polyamide PA1010

Glass Fiber Reinforced Polyamide PA1010

Carbon Fiber Reinforced Polyamide PA1010

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Flame Retardant Polyamide PA1010

Others

Market segment by Processing Technology

Injection Molding Grade Polyamide PA1010

Extrusion Grade Polyamide PA1010

Blow Molding Grade Polyamide PA1010

Market segment by Application

Automotive Applications

Industrial Applications

Consumer Goods

Electronics

Others

Major players covered

Arkema

Evonik Industries

Celanese

Market segment by region, regional analysis covers

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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)

Chapter Outline

Chapter 1, to describe Bio-based Polyamide 1010 (PA1010) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Polyamide 1010 (PA1010), with price, sales quantity, revenue, and global market share of Bio-based Polyamide 1010 (PA1010) from 2021 to 2026.

Chapter 3, the Bio-based Polyamide 1010 (PA1010) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Polyamide 1010 (PA1010) 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 Type and by Application, with sales market share and growth rate by Type, 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 Polyamide 1010 (PA1010) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

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analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based Polyamide 1010 (PA1010).

Chapter 14 and 15, to describe Bio-based Polyamide 1010 (PA1010) sales channel, distributors, customers, research findings and conclusion.

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