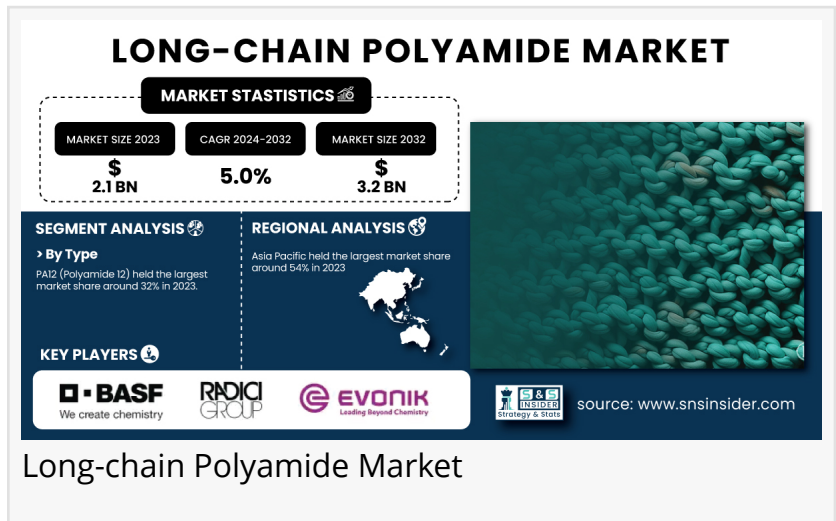


Long-chain Polyamide Market to Reach USD 3.2 Billion by 2032, Driven by Automotive, Electronics & Industrial Demand

Long-chain Polyamide market grows with rising demand in automotive, electronics, and industrial sectors, driven by eco-conscious policies.

AUSTIN, TX, UNITED STATES, January 10, 2025 /EINPresswire.com/ -- The [Long-chain Polyamide Market](#) size was USD 2.1 billion in 2023 and is expected to reach USD 3.2 billion by 2032 and grow at a CAGR of 5.0% over the forecast period of 2024-2032.



Rising Demand for Long-chain Polyamides in Automotive and Consumer Goods Driven by Lightweighting and Sustainability Trends

The demand for long-chain polyamides in the automotive sector is mainly driven by the need for lighter materials to help improve fuel efficiency and meet increasingly stringent emission standards. These polyamides have excellent mechanical strength, chemical resistance, and thermal stability, thus replacing metals in under-the-hood parts, fuel systems, and structural components. Regulatory frameworks, such as the EU's Green Deal and the EPA's emissions policies, promote lightweight materials in vehicles to minimize vehicle weight and, consequently, CO₂ emissions. The transition towards electric vehicles (EVs) also drives demand, since polyamides are used in battery casings and lightweight body parts. In consumer goods, they offer durability and flexibility to be used in products such as sports equipment and kitchen utensils, while sustainability trends push the use of bio-based polyamides. Government incentives to be eco-friendly are catalyzing growth in the market. In 2023, Invista released high-temperature-resistant polyamides for automotive and industrial applications to meet these evolving demands.

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Key Players:

- BASF SE (Ultramid Advanced N, Ultraform)
- Radici Group Spa (Radilon D, Raditeck)
- Evonik Industries AG (VESTAMID, VESTOSIN)
- DSM (EcoPaXX, Stanyl)
- EMS-Chemie Holding AG (VESTAMID, EMS-GRIVORY)
- Arkema (Rilsan PA11, Orgasol)
- Nylon Corporation of America, Inc. (NYCOA) (Vydyne, Akulon)
- DuPont (Zytel, Delrin)
- Solvay (Amodel PPA, Ryton PPS)
- Toyobo Co., Ltd. (Nylon 610, Toyolac)
- Huntsman Corporation (Vitel PBT, Nylast)
- Lanxess (Durethan, Pocan)
- Ube Industries Ltd. (Amilan PA66, Amilan PA12)
- Saudi Basic Industries Corporation (SABIC) (Ultramid, Lexan)
- Mitsui Chemicals, Inc. (Duracon POM, Toyolac)
- Kraton Polymers (Kraton Polymers, Cariflex)
- Asahi Kasei Corporation (Leona PA66, Leona PA6)
- Koc Holding (Peraform, Peraform PA66)
- SGL Carbon (SGL Long Chain Polyamide, SGL Composite Materials)
- Ascend Performance Materials (Vydyne, Zytel)

PA12 Dominates Market Share with Versatility and Durability

PA12 (Polyamide 12) held the largest market share of approximately 32% in 2023 due to its excellent chemical resistance, low moisture absorption, and high dimensional stability, making it ideal for automotive, electronics, and consumer goods applications. Its lightness and easy processing, especially for injection molding and extrusion, further contribute to its dominance in the market.

Fuel Lines Lead Market Share Due to Chemical Resistance and Durability

Fuel lines accounted for around 35% of the market share in 2023, as long-chain polyamides like PA12 offer superior chemical resistance, durability, and flexibility. These materials are well-suited for fuel systems, ensuring performance under harsh conditions, high temperatures, and fluctuating pressures, while also reducing vehicle weight and enhancing fuel efficiency.

Automotive and Transportation Sector Drives Market with Demand for Lightweight Materials

The automotive and transportation sector held the largest market share of about 36% in 2023, driven by the increasing demand for lightweight, durable, and high-performance materials. Long-chain polyamides are increasingly used to replace metal parts in automotive applications,

supporting fuel efficiency and compliance with stringent emissions standards while contributing to the evolution of electric vehicle design.

Market Segmentation and Sub-Segmentation included are:

By Type

- PA11
- PA12
- PA611
- PA612
- Others

By Application

- Fuel Lines
- Cooler Hoses
- Corrugated Tubes
- Oil and Gas Transportation
- Sensors and Solenoids
- Others

By End-User

- Automotive and Transportation
- Electrical and Electronics
- Consumer Goods and Retail
- Energy
- Others

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Asia Pacific Dominates Long-chain Polyamide Market Driven by Urbanization and Manufacturing Hubs

Asia Pacific dominated the long-chain polyamide market with a revenue share of approximately 54% in 2023, fueled by rapid urbanization and the increasing demand for high-performance materials. Countries like China, Japan, South Korea, and India serve as major automotive manufacturing hubs, where long-chain polyamides are extensively utilized in applications such as fuel lines, connectors, and under-the-hood components. With a strong focus on fuel efficiency, emissions reduction, and compliance with stringent regulations, the demand for lightweight and durable materials like PA12 remains robust. Additionally, the region's growing electronics and consumer goods sectors contribute significantly to market growth, as long-chain polyamides are used in electrical components and other products. The availability of a low-cost and extensive manufacturing base further enhances the region's competitiveness, driving the

long-chain polyamide market. Rapid industrialization, rising disposable incomes, and a shift towards sustainability are expected to continue supporting growth in the Asia Pacific region.

The Long-chain Polyamide market is set for continued growth, driven by demand for durable, high-performance materials, particularly in the automotive, electronics, and industrial sectors. Asia Pacific leads with rapid industrial growth and rising demand for lightweight materials, while Europe remains strong due to its established markets and strict quality standards. Technological advancements and the growing need for high-performance materials offer promising opportunities for future growth.

Recent Developments

□ In 2024: BASF introduced a new range of sustainable engineering plastics under its Ultramid brand, aimed at meeting the rising demand for eco-friendly solutions in automotive and industrial sectors. The company is also focusing on increasing its use of recycled materials to align with the global sustainability trend.

□ In 2023: Radici Group launched Radilon D, a new line of polyamide 6.6-based products designed for high-performance applications, including automotive components that require improved heat resistance and dimensional stability.

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