

Polyacrylonitrile Market is projected to experience a CAGR of 4.23% throughout the forecast period

The global polyacrylonitrile market is valued at US\$9.862 billion in 2025 and is projected to grow at a CAGR of 4.23% over the forecast period.

NEW YORK, NY, UNITED STATES, February 7, 2025 /EINPresswire.com/ -- According to a new study published by Knowledge Sourcing Intelligence, the global [polyacrylonitrile market](#) is projected to grow at a CAGR of 4.23% between 2025 and 2030.

Polyacrylonitrile (PAN) is the polymer of acrylonitrile. PAN-based carbon fibers possess very high strength. As a result, it is suitable for use in automotive, aerospace, and wind turbine blade applications. When treated with heat, it can provide a high carbon yield, resulting in a thermally stable and graphite-like molecule structure. These are utilized as fibers in outdoor awnings, sailboat sails, and fiber-reinforced concrete.

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The key market driver is the significant utilization of the material in the end-user industries such as automotive. According to the International Organisation of Motor Vehicle Manufacturers, worldwide car production was 67,133,570 in 2023, while commercial vehicle production was 26,413,029, exceeding the 2022 by 10%. The growing demand for automobiles will fuel the need for polyacrylonitrile.

The import of automotive cars, components, and engines

in the United States grew by 9.48% in the fiscal year 2023-24 compared to 2022-23. Imports



Polyacrylonitrile Market
Forecasts from 2025 to 2030

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global polyacrylonitrile market

totaled US\$161,798 million in 2023-24. This figure reflects the country's increasing need for automotive equipment parts further indicating a desire for [carbon fiber](#) goods.

Access sample report or view details: <https://www.knowledge-sourcing.com/report/polyacrylonitrile-market>

Based on type, the polyacrylonitrile market is divided into acrylic staple fiber, acrylic tow, and acrylic top. Acrylic staple fiber, which is the most common, comes in the form of short-length fibers. These are then applied in [textile](#) uses such as clothes, carpets, and upholstery. Acrylic tow is a tow or bundle of continuous fibers and is widely used as an intermediary in carbon fiber production for the aerospace, automotive, and sporting goods industries. Acrylic top is the combed and aligned form of acrylic tow, further processed for specific textile applications requiring a smoother, more refined yarn. Each of them serves different end-use applications and contributes to the many uses of PAN in different industries.

By application type, the polyacrylonitrile market is segmented into filtration, textiles, precursors to carbon fiber, outdoor products, and fiber-reinforced concrete. Filtration applications take advantage of PAN properties in many different kinds of filtration needs. Textiles continue to be important end-users that apply PAN in the making of apparel, upholstery for home, and industrial textiles. Carbon fiber precursor is also important; it is used in high-performance application areas across aerospace automobiles and others. PAN can be used for awnings and tents outdoors, to be resistant to bad weather conditions.

Geographically, the Asia Pacific region is expected to see notable growth in the polyacrylonitrile market due to increasing applications in textiles, production of carbon fiber, and outdoor products. India is the second-largest producer of textiles and garments. Indian textiles and apparel industry held 4% of the global trade in textiles and apparel in 2023. Thus, the consumption of the raw materials required for textiles and apparel is rising in these economies. As a part of the report, the major players operating in the global polyacrylonitrile market that have been covered are Merck KGaA, Otto Chemie Pvt. Ltd., Vizag Chemical, Goodfellow Corporation, and Alfa Chemistry Farmers among others.

The market analytics report segments the global polyacrylonitrile market on the following basis:

- By Type
 - o Acrylic Staple Fiber
 - o Acrylic Tow
 - o Acrylic Top

- By Application
 - o Filtration

- o Textiles
- o Precursors To Carbon Fiber
- o Outdoor Products
- o Fiber-reinforced Concrete

- By Geography

- North America

- o USA
- o Canada
- o Mexico

- South America

- o Brazil
- o Argentina
- o Rest of South America

- Europe

- o United Kingdom
- o Germany
- o France
- o Italy
- o Spain
- o Rest of Europe

- Middle East and Africa

- o Saudi Arabia
- o UAE
- o Rest of the Middle East and Africa

- Asia Pacific

- o China
- o India
- o Japan
- o South Korea
- o Taiwan
- o Thailand
- o Indonesia

- o Rest of Asia-Pacific

- Companies Profiled

- o Merck KGaA

- o Otto Chemie Pvt. Ltd.

- o Vizag Chemical

- o Goodfellow Corporation

- o Alfa Chemistry

- o Formosa Plastics Materials

- o Toray

- o Pasupati Acrylon

- o SGL Carbon

- o Sinopec

- o Sarchem Laboratories Inc.

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- **Insightful Analysis:** Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government policies and socio-economic factors, consumer preferences, industry verticals, other sub-segments.
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- **Market Drivers & Future Trends:** Explore the dynamic factors and pivotal market trends and how they will shape future market developments.
- **Actionable Recommendations:** Utilize the insights to exercise strategic decision to uncover new business streams and revenues in a dynamic environment.
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