

## **Acrylonitrile - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-08-01 | 120 pages | Mordor Intelligence

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### **Report description:**

Acrylonitrile Market Analysis

The Acrylonitrile Market size is estimated at 8.79 Million tons in 2025, and is expected to reach 11.09 Million tons by 2030, at a CAGR of 4.75% during the forecast period (2025-2030).

Expansion in downstream uses, most notably ABS/SAN resins, acrylic fibers, and polyacrylamide, remains the chief volume driver. Simultaneously, the U.S. Environmental Protection Agency's 2024 decision to list acrylonitrile as a High-Priority Substance has propelled manufacturers to adopt advanced emission controls and pilot bio-based routes. Demand within the Acrylonitrile Market is further supported by rising electric-vehicle production, growth in water-treatment infrastructure, and sustained infrastructure spending across Asia. Yet supply chains face heightened volatility after steam-cracker outages in Southeast Asia exposed propylene feedstock fragility.

Global Acrylonitrile Market Trends and Insights

Rising ABS demand in automotive and construction

ABS demand continues to climb as automakers pursue lighter vehicle components that preserve impact resistance, making acrylonitrile-rich resins ideal for battery housings and interior trim. Trinseo's 2024 rollout of recycled-content MAGNUM ECO+ ABS, showing an 18% carbon-footprint cut, illustrates how sustainability now commands a premium segment trinseo.com.

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Post-pandemic infrastructure programs in Asia are equally important; ABS pipe fittings and decorative panels gain traction in large-scale construction, locking in sustained acrylonitrile uptake over the medium term.

## Growth of the Textile Sector

Middle-class expansion across Asia-Pacific fuels demand for durable, color-fast acrylic fibers in performance apparel and outdoor fabrics are the driving factors of ACN market. Acrylonitrile-derived fibers resist UV degradation and chemicals, which positions them for sportswear and home-textile markets growing at twice the pace of conventional cotton. Process innovations that trim water usage by 40% bolster competitiveness while addressing environmental scrutiny.

## Toxicity and Tightening Regulations

The 2024 U.S. EPA High-Priority listing initiates a multi-year risk evaluation that could limit certain uses and ratchet permissible exposure levels. The UK already caps workplace exposure at 2 ppm, while the EPA estimates USD 169 million in annual compliance costs. Smaller producers face margin pressure as they retrofit scrubbers and bolster monitoring to meet stricter occupational and environmental thresholds.

Other drivers and restraints analyzed in the detailed report include:

Higher Acrylamide use in Water Treatment / EU Incentives for Renewable ACN Pilots / Propylene Feedstock Volatility Tied to Cracker Outages /

For complete list of drivers and restraints, kindly check the Table Of Contents.

## Segment Analysis

The acrylonitrile market size tied to ammoxidation reached 6.97 million tons in 2024, equal to 83% share. Robust catalyst know-how and plant debottlenecking keep cash costs low, supporting a healthy 5.1% CAGR outlook to 2030. NREL's biomass-to-acrylonitrile pathway achieved a 98% lab-scale yield, sidestepping hydrogen cyanide by-products and shrinking carbon intensity National Renewable Energy Laboratory, "Renewable Routes to Acrylonitrile," nrel.gov. Plasma-chemistry concepts under ISPA show promise for zero-fossil inputs. While commercial uptake remains modest, pilot data suggest viable economics once renewable-propylene premiums erode, foreshadowing a reshaped technology mix beyond 2030.

The Acrylonitrile Market Report Segments the Industry by Process Technology (Ammoxidation Process and Other Production Technologies), Application (Acrylic Fiber, Acrylamide, Nitrile-Butadiene Rubber, and More), End -User Industry (Automotive and Transportation, Construction and Infrastructure, Electrical and Electronics, and More) and Geography (Asia-Pacific, North America, Europe, South America, and Middle East and Africa).

## Geography Analysis

Asia-Pacific dominated with a 70% acrylonitrile market share and a 5.59% CAGR projection. China's integrated propylene-to-ABS value chains anchor investment, while electronics manufacturing scales drive steady resin offtake. Government incentives for new carbon-fiber capacity, such as Rongsheng Petrochemical's tie-up with Saudi Aramco, ensure long-term captive demand rongsheng.com.

North America holds mature yet resilient demand, buoyed by high-purity acrylonitrile from Ascend's upgraded Texas unit that caters to carbon-fiber and specialty-chemical uses ascendmaterials.com. Stricter EPA oversight may cap net growth but

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encourages technology upgrades that raise cost barriers to entry.

Europe charts a transitional path. Bio-based pilot lines leverage Horizon Europe grants and national carbon-pricing signals. Early movers gain premium access to automaker supply chains targeting Scope 3 reductions. Latin America and the Middle East and Africa contribute incremental volumes through textile and water-treatment investments, diversifying global trade flows.

List of Companies Covered in this Report:

AnQore / Asahi Kasei Corporation / Ascend Performance Materials / China Petrochemical Corporation / Cornerstone Chemical / Formosa Plastics Corporation / INEOS / Jiangsu Sailboat Petrochemical / Jiangsu Shenghong Petrochemical / LG Chem / Mitsubishi Chemical Group Corporation. / PetroChina / Reliance Industries Limited. / SABIC / SGL Carbon / Shanghai SECCO / SOCAR (Petkim) / Sumitomo Chemical Co., Ltd. / Taekwang Industrial / TONGSUH PETROCHEMICAL CORPORATION,LTD. / Toray Industries /

Additional Benefits:

The market estimate (ME) sheet in Excel format /  
3 months of analyst support /

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