

Global Polyacrylic Acid Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polyacrylic Acid Fiber market size is expected to reach \$ 3178 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032). Global sales of polyacrylic acid fiber reached 751,000 tons in 2025, with an average price of US\$2,683 per ton.

Polyacrylic acid fiber, also known as polyacrylate fiber, is a synthetic fiber made from a complex formed by polyacrylate and metal through a spinning process. This fiber has a helical secondary structure, with alanine and glutamic acid as its main amino acids. Its technological development involves optimizing the polymer complex spinning process. Unlike polyacrylonitrile fiber (acrylic fiber), the chemical composition and structural characteristics of polyacrylic acid fiber give it unique flame-retardant properties and functionality.

The supply of raw materials for polyacrylic acid fiber is significantly dependent on petrochemicals and is technology-intensive. Its cost structure varies considerably depending on functional modifications. Raw material costs account for 60-70% of the total cost, with acrylate monomers (such as methyl acrylate and ethyl acrylate) accounting for the largest share (approximately 40-50%), and their prices directly affected by fluctuations in oil and natural gas prices. Metal compounds (metal salts such as aluminum, zirconium, and titanium, used to form flame-retardant complexes) account for 15-20%, and are key raw materials for imparting flame-retardant properties to fibers. Solvents and auxiliaries (DMF, DMSO, initiators, chain transfer agents, etc.) account for 5-10%. Energy and equipment costs account for 15-20%, as the polymerization reaction requires precise control of temperature and pH, and the spinning process requires high-temperature stretching and setting, resulting in high energy consumption. Processing and manufacturing costs account for approximately 10-15%, including multiple

processes such as polymerization, spinning, coagulation, washing, stretching, oiling, crimping, drying, and heat setting. Among these, the uniform dispersion of metal complexes and the stable control of flame-retardant properties are technical challenges, requiring precise control of process parameters. Quality control and testing costs account for 5-10% of the total cost, requiring testing of indicators such as limiting oxygen index (LOI), flammability, fiber strength, and dyeability.

This report studies the global Polyacrylic Acid Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polyacrylic Acid Fiber and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Polyacrylic Acid Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polyacrylic Acid Fiber total production and demand, 2021-2032, (Kilotons)

Global Polyacrylic Acid Fiber total production value, 2021-2032, (USD Million)

Global Polyacrylic Acid Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Polyacrylic Acid Fiber consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Polyacrylic Acid Fiber domestic production, consumption, key domestic manufacturers and share

Global Polyacrylic Acid Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Polyacrylic Acid Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Polyacrylic Acid Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Polyacrylic Acid Fiber 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 Aksa Akrilik, Mitsubishi Chemical, Aditya Birla Group, Formosa Plastics Corporation, Japan Exlan, Taekwang, Toray, Kaltex, Pasupati Acrylon, SGL Carbon, etc.

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 Polyacrylic Acid Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Polyacrylic Acid Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyacrylic Acid Fiber Market, Segmentation by Type:

Staple Fibers

Tows

Others

Global Polyacrylic Acid Fiber Market, Segmentation by Polymerization Processes:

Solution Polymerization

Aqueous Suspension Polymerization

Emulsion Polymerization

Global Polyacrylic Acid Fiber Market, Segmentation by Spinning Methods:

Wet Spinning

Dry Spinning

Melt Spinning

Global Polyacrylic Acid Fiber Market, Segmentation by Application:

Clothing

Home Furnishings and Bedding

Industrial Uses

Other

Companies Profiled:

Aksa Akrilik

Mitsubishi Chemical

Aditya Birla Group

Formosa Plastics Corporation

Japan Exlan

Taekwang

Toray

Kaltex

Pasupati Acrylon

SGL Carbon

Sudamericana De Fibras

Indian Acrylics

Sinopec

Jilin Chemical Fiber

CNPC

Ningbo Zhongxin Acrylic Fibers

Key Questions Answered:

1. How big is the global Polyacrylic Acid Fiber market?
2. What is the demand of the global Polyacrylic Acid Fiber market?
3. What is the year over year growth of the global Polyacrylic Acid Fiber market?
4. What is the production and production value of the global Polyacrylic Acid Fiber market?
5. Who are the key producers in the global Polyacrylic Acid Fiber market?
6. What are the growth factors driving the market demand?

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