

Global High Strength Acrylic Fiber Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6F090C30D83EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G6F090C30D83EN

Abstracts

The global High Strength Acrylic Fiber market size is expected to reach \$ 541 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global production of high-strength acrylic fiber reached 174,100 tons, with an average selling price of US\$2,000 per ton. Global annual production capacity for high-strength acrylic fiber was approximately 250,000 tons, with a gross profit margin of approximately 22.4%. High-strength acrylic fiber is a synthetic fiber, primarily composed of polyacrylonitrile (PAN), characterized by high strength and excellent durability. Compared to ordinary acrylic fiber, high-strength acrylic fiber exhibits superior tensile strength, UV resistance, and chemical resistance, and is typically used to manufacture products requiring high strength and abrasion resistance. This fiber is widely used in clothing, home textiles, industrial fabrics, fishing nets, and other fields, especially in applications requiring prolonged use and high stress. Furthermore, high-strength acrylic fiber possesses excellent moisture absorption, breathability, and warmth retention, making it popular in certain garments. The upstream of high-strength acrylic fiber production includes acrylonitrile (PAN) monomers, modifying additives, and stabilizers. The midstream consists of high-strength acrylic fiber manufacturers, while downstream applications are mainly in the textile, industrial, and automotive sectors.

The high-strength acrylic fiber market is generally characterized by 'stable demand, structural differentiation, and product upgrading.' In fields such as new energy, industrial protection, composite material reinforcement, filter materials, and special engineering applications, the requirements for high strength, abrasion resistance, chemical resistance, and dimensional stability are continuously increasing, driving the iteration of high-strength acrylic fibers from general acrylic fibers to higher performance (such as high modulus, low shrinkage, and modified spinnability/absorbency). However, the

industry also faces challenges such as fluctuating raw material costs, price pressure from homogeneous competition, and long certification cycles for stable delivery and consistent performance indicators from downstream users. Overall, companies with large-scale production capabilities, stable chemical composition and spinning/post-processing technologies, and the ability to provide customized specifications and application solutions are more likely to secure orders. Market competition is shifting from 'capacity expansion' to a competition of 'differentiated performance + application orientation.'

This report studies the global High Strength Acrylic Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Strength Acrylic 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 High Strength Acrylic Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Strength Acrylic Fiber total production and demand, 2021-2032, (Kilotons)

Global High Strength Acrylic Fiber total production value, 2021-2032, (USD Million)

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

Global High Strength Acrylic Fiber consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High Strength Acrylic Fiber domestic production, consumption, key domestic manufacturers and share

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

Global High Strength Acrylic Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High Strength Acrylic Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High Strength Acrylic 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 Toyobo, Toray, Dupont, Asahi Kasei Corporation, Aditya Birla Group, Jilin Chemical Fiber, Lenzing, Mitsubishi Chemical Corporation,

Aksa Akrilik Kimya Sanayii, Dralon, 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 High Strength Acrylic 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 High Strength Acrylic Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Strength Acrylic Fiber Market, Segmentation by Type:

Short Fiber

Long Fiber

Global High Strength Acrylic Fiber Market, Segmentation by Chemical Composition:

Basic Acrylic Fiber

Modified Acrylic Fiber

Global High Strength Acrylic Fiber Market, Segmentation by Elastic Modulus:

Elastic Modulus ≤ 10 GPa

Elastic Modulus 10-20 GPa

Elastic Modulus ≥ 20 GPa

Global High Strength Acrylic Fiber Market, Segmentation by Application:

Textile

Industrial

Automotive

Medical

Others

Companies Profiled:

Toyobo

Toray

Dupont

Asahi Kasei Corporation

Aditya Birla Group

Jilin Chemical Fiber

Lenzing

Mitsubishi Chemical Corporation

Aksa Akrilik Kimya Sanayii

Dralon

Kaneka Corporation

Exlan Japan

WanJing Tread

SINOPEC Shanghai Petrochemical

Key Questions Answered:

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

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