

Global Flame Retardant Acrylic Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flame Retardant Acrylic Fiber market size is expected to reach \$ 871 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Flame-retardant acrylic fibers are a type of functional fiber that, through bulk copolymerization modification or finishing processes, acquire flame-retardant properties such as self-extinguishing, smoke suppression, and low heat release. They are mainly used in textile and nonwoven material systems with high fire resistance requirements. Common forms of flame-retardant acrylic fibers include staple fibers and filaments, which can be blended with cotton, viscose fibers, aramid fibers, etc., to balance comfort and protection. In 2025, global sales of flame-retardant acrylic fibers were approximately 180,000 tons, with an average price of approximately US\$3,350 per ton, an average capacity utilization rate of approximately 76%, and a gross profit margin of approximately 22%. Upstream companies are mainly distributed in the fields of acrylonitrile and comonomers (petrochemical raw materials), flame-retardant comonomers and flame-retardant auxiliaries, solvents and spinning oils, polymerization and spinning equipment, packaging, testing, and environmental protection. The midstream industry chain mainly includes flame-retardant acrylic fiber production and finishing processing companies. The downstream industry chain covers flame-retardant protective clothing and workwear, public transportation interior and seat fabrics, hotel and public building decorative fabrics, flame-retardant curtains and carpets, flame-retardant non-woven thermal insulation materials, and cable filling and insulation materials. The product cost structure typically includes raw material costs such as acrylonitrile and modified copolymer monomers, flame-retardant system material consumption costs, solvent recovery and auxiliary material consumption costs, energy consumption and utility costs, equipment depreciation and maintenance costs, labor and manufacturing costs, flame-retardant performance testing and certification costs,

and packaging, logistics, and channel costs. Raw materials and flame-retardant system materials are the most significant cost items. On the demand side, the downstream demand list includes occupational protective clothing fabrics, fire and emergency protective equipment, flame-retardant materials for rail transit and automotive interiors, flame-retardant fabrics for public building soft furnishings, flame-retardant non-woven thermal insulation felt, and cable flame-retardant filling and insulation materials. Downstream customers include protective clothing and workwear brands, rail transit and automotive interior supply chain companies, hotel and engineering decoration material suppliers, cable harness manufacturers, and industrial non-woven fabric and composite material manufacturers. In terms of business opportunities, policy drivers include stricter fire safety standards for public places, upgraded safety regulations for rail transit and new energy vehicles, strengthened industrial safety supervision, and increased requirements for low-smoke and low-toxicity materials in some regions. Technological innovation is reflected in modified materials with higher flame retardancy and durability, low-smoke and low-odor formulations, recyclability and low-halogenation trends, and multifunctional collaborative designs that combine comfort and antistatic properties. Changing consumer demands are reflected in the increasing preference for safe, healthy, and durable materials for homes and public spaces. At the same time, companies are increasing their investment in compliance and risk control, thereby driving the continued growth of flame-retardant acrylic fibers in protective clothing, vehicle interiors, and public building furnishings. The flame-retardant acrylic fiber market is rapidly expanding from traditional public building and protective workwear applications to areas such as transportation interiors, industrial nonwovens, and functional composite materials. The core driver of this demand growth is the increasingly stringent fire safety standards and the high level of attention downstream customers place on material compliance. As flame-retardant technology matures and low-smoke, low-toxicity formulations become mainstream, industry competition is gradually shifting from simple price and capacity competition to a comprehensive contest of flame-retardant stability, long-term durability, and multifunctional synergy. Overall, the flame-retardant acrylic fiber industry will show a trend of steady demand growth, product structure upgrading towards high performance, and increased concentration of high-quality production capacity. Companies with technological accumulation, certification capabilities, and stable customer resources are more likely to establish a long-term advantage in mid-to-high-end applications. This report studies the global Flame Retardant Acrylic Fiber production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Flame Retardant Acrylic Fiber total production and demand, 2021-2032, (Tons)

Global Flame Retardant Acrylic Fiber total production value, 2021-2032, (USD Million)

Global Flame Retardant Acrylic Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Flame Retardant Acrylic Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Flame Retardant Acrylic Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Flame Retardant Acrylic Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Flame Retardant Acrylic Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Flame Retardant 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 Toray, Dupont, Kaneka, Protex, Kilop, Sinopec Petrochemical Company, Formosa Plastics Corporation, Huacai Textile, Nanjing Hengli Textile, Jiangsu Tiandizao New Material Technology, 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 Flame Retardant Acrylic Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Flame Retardant Acrylic Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flame Retardant Acrylic Fiber Market, Segmentation by Type:

Inherent Flame Resistant Acrylic Fiber

Treatment Flame Resistant Acrylic Fiber

Global Flame Retardant Acrylic Fiber Market, Segmentation by Terminal Form:

Short-Fiber Flame-Retardant Acrylic Fiber

Filament Flame-Retardant Acrylic Fiber

Global Flame Retardant Acrylic Fiber Market, Segmentation by Flame Retardant Rating:

General Flame-Retardant Type

High Flame-Retardant Type

Global Flame Retardant Acrylic Fiber Market, Segmentation by Application:

Fireproof Clothing

Home Textiles

Automobile

Aerospace

Other

Companies Profiled:

Toray

Dupont

Kaneka

Protex

Kilop

Sinopec Petrochemical Company

Formosa Plastics Corporation

Huacai Textile

Nanjing Hengli Textile

Jiangsu Tiandizao New Material Technology

Key Questions Answered:

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

6. What are the growth factors driving the market demand?

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