

Global Short Carbon Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Short Carbon Fiber market size is expected to reach \$ 833 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Short Carbon Fiber refers to carbon fiber with a relatively short fiber length compared with continuous carbon fiber tow, generally used as a discontinuous reinforcement or functional filler in composite materials. It may be supplied as chopped fiber, milled fiber, short fiber bundles, pellets, masterbatch, or compound-ready material. Compared with continuous carbon fiber, Short Carbon Fiber has better processing flexibility and is more suitable for injection molding, extrusion, compression molding, coating modification, additive manufacturing and other scalable industrial processes. It retains the core advantages of carbon fiber, including low density, high stiffness, good dimensional stability, electrical conductivity, wear resistance and thermal stability, while being easier to disperse and process in polymer, rubber, coating, cementitious and other matrix systems.

In 2025, global sales of Short Carbon Fiber reached approximately 17 K tons, with an average global market price of around US\$ 22/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 50%.

Short Carbon Fiber is an important product form that extends carbon fiber from high-end continuous reinforcement into broader industrial applications. Continuous carbon fiber is usually more suitable for aerospace, premium sporting goods and high-performance structural components, while short carbon fiber can be more easily integrated into established processes such as injection molding, extrusion, compression molding, compounding, coating modification and filler reinforcement. As demand grows for

automotive lightweighting, miniaturized electronics, higher-performance industrial parts and functional composites, the value of short carbon fiber in reinforcement, conductivity, antistatic performance, wear resistance, dimensional stability and lightweight design is becoming increasingly evident.

From an application perspective, engineering plastics and composite materials remain among the most important demand areas for Short Carbon Fiber. It can improve stiffness, strength, heat resistance, dimensional stability and electrical performance of polymer materials, making it suitable for automotive parts, electronic connectors, sensor housings, industrial wear-resistant components and auxiliary structural parts. At the same time, Short Carbon Fiber is also used in friction materials, sealing materials, conductive coatings, 3D printing consumables, cementitious materials and functional fillers, creating a diversified demand base supported by multiple downstream industries rather than a single end market.

Overall, Short Carbon Fiber has favorable long-term growth potential and increasing industrial attention, but competition is shifting from basic fiber supply toward product specification control, surface treatment, dispersion performance, resin compatibility and customer qualification capability. Virgin short carbon fiber is expected to remain advantageous in applications requiring high consistency and reliability, while recycled short carbon fiber has strong potential in cost-sensitive and sustainability-driven applications. Producers with stable feedstock access, precise length or particle-size control, sizing modification capability and downstream formulation support are more likely to build long-term competitiveness.

This report studies the global Short Carbon Fiber production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Short Carbon Fiber total production and demand, 2021-2032, (Tons)

Global Short Carbon Fiber total production value, 2021-2032, (USD Million)

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

Global Short Carbon Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Short Carbon Fiber domestic production, consumption, key domestic manufacturers and share

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

Global Short Carbon Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Short Carbon Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Short Carbon 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, Mitsubishi Chemical, Teijin, SGL Carbon, Jilin Chemical Fiber, Formosa Plastics, Phlex Tek, Aksa Carbon, Kureha, Syensqo, 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 Short Carbon Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Short Carbon Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Short Carbon Fiber Market, Segmentation by Type:

3mm

6mm

12mm

Other

Global Short Carbon Fiber Market, Segmentation by Raw Materials:

PAN Based

Pitch Based

Global Short Carbon Fiber Market, Segmentation by Material Sources:

Virgin Chopped Carbon Fiber

Recycled Chopped Carbon Fiber

Global Short Carbon Fiber Market, Segmentation by Application:

Automotive

Electronics and Electrical Appliances

Civil Engineering and Construction

Other

Companies Profiled:

Toray

Mitsubishi Chemical

Teijin

SGL Carbon

Jilin Chemical Fiber

Formosa Plastics

Phlex Tek

Aksa Carbon

Kureha

Syensqo

Osaka Gas Chemicals

Procotex

Vartega

Yancheng Xiangsheng Carbon Fiber Technology

Shenzhen Yataida

Key Questions Answered:

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

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