

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

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Abstracts

The global Carbon Fiber Filament Yarn market size is expected to reach \$ 7613 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

Carbon Fiber Filament Yarn refers to a continuous yarn-like bundle made from carbon fiber filaments. In carbon fiber industry practice, this term is closely related to continuous carbon fiber tow, but it is more often used in textile and fabric-processing contexts, such as weaving, braiding and spread-tow fabric production. The product is composed of continuous carbon filaments gathered in parallel, usually supplied on bobbins or spools for downstream conversion. Compared with chopped carbon fiber or milled carbon fiber, Carbon Fiber Filament Yarn retains continuous fiber length, allowing composites to achieve higher load transfer efficiency, better tensile performance, low weight, fatigue resistance and dimensional stability.

In 2025, global sales of Carbon Fiber Filament Yarn reached approximately 136 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 30% to 60%.

Carbon Fiber Filament Yarn is a basic material within the continuous carbon fiber product system and is more closely associated with downstream processes such as weaving, prepreg production, braiding and filament winding. Its market demand is highly linked to the development of high-performance composites. Historically, it has been mainly used in aerospace, premium sporting goods and precision industrial components, but its applications have gradually expanded into automotive lightweighting, pressure vessels, unmanned aerial vehicles, robotics, electronics and

general industrial structural parts. Compared with chopped carbon fiber and milled carbon fiber, Carbon Fiber Filament Yarn provides continuous reinforcement, making it more suitable for load-bearing structures, visible woven parts and composites requiring directional strength.

The market outlook for Carbon Fiber Filament Yarn remains positive. Lightweighting, high strength, fatigue resistance, corrosion resistance and design flexibility are the main drivers of demand growth. With the development of thermoplastic composites, automated layup, spread-tow fabrics and more efficient molding technologies, the application boundary of carbon fiber filament yarn is expanding. In electric vehicles, low-altitude mobility, hydrogen storage, advanced equipment and premium consumer products, downstream customers require both stable mechanical properties and good weaving, impregnation and forming performance, which supports continued demand for this product.

From a competitive perspective, the key barriers for Carbon Fiber Filament Yarn are not limited to carbon fiber mechanical properties. They also include filament uniformity, fuzz control, sizing formulation, package quality, tension stability and compatibility with resin systems. The market is expected to become more segmented. High-end products will mainly serve aerospace, premium pressure vessels and precision industrial applications, where stability and qualification capability are critical. Mid-to-high-end industrial products will be more widely used in automotive, electronics, sporting goods and general industrial applications, where cost efficiency and processing adaptability are more important. Overall, competition in this market will not be based only on capacity expansion, but will increasingly depend on performance consistency, downstream processing efficiency and application co-development.

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

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

Highlights and key features of the study

Global Carbon Fiber Filament Yarn total production and demand, 2021-2032, (Tons)
Global Carbon Fiber Filament Yarn total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Carbon Fiber Filament Yarn 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, Hexcel, Hyosung Advanced Materials, SGL Carbon, Formosa Plastics, Aksa Carbon, Syensqo, UMATEx, 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 Carbon Fiber Filament Yarn 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 Carbon Fiber Filament Yarn Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Filament Yarn Market, Segmentation by Type:

Regular Tow

Large Tow

Global Carbon Fiber Filament Yarn Market, Segmentation by Precursor:

PAN-based

Pitch-based

Rayon-based

Global Carbon Fiber Filament Yarn Market, Segmentation by Tow:

3K

6K

12K

24K

48K

Other

Global Carbon Fiber Filament Yarn Market, Segmentation by Application:

Aerospace and Defense

Sports/Leisure

Wind Energy

Pressure Vessel

Automotive

Other

Companies Profiled:

Toray

Mitsubishi Chemical

Teijin

Hexcel

Hyosung Advanced Materials

SGL Carbon

Formosa Plastics

Aksa Carbon

Syensqo

UMATEX

Taekwang Industrial

Zhongfu Shenying

Jilin Chemical Fiber

Baowu Carbon

Weihai Guangwei Composites

Sinofibers Technology

Jiangsu Hengshen

Newtech Group

Key Questions Answered:

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

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