

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

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Abstracts

The global Carbon Fiber Automotive Composites market size is expected to reach \$ 1495 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of carbon fiber automotive composites reached 30 thousand tons, with an average price of USD 31 thousand per ton, total production capacity of 42 thousand tons, and an average gross margin of 18%.

Carbon fiber automotive composites refer to carbon fiber reinforced polymer (CFRP) materials used in automotive manufacturing, in which carbon fiber serves as the reinforcement and resin systems such as epoxy, polyurethane, polyester, or thermoplastic resins serve as the matrix. These composites are manufactured through processes such as prepreg molding, resin transfer molding (RTM), compression molding, and other forming technologies, and are mainly used in automotive structural parts, exterior body panels, battery enclosures, and functional components to achieve lightweighting, improved fuel efficiency or driving range, and enhanced vehicle safety performance.

The upstream of the carbon fiber automotive composites industry mainly includes carbon fiber precursor, carbon fiber, resin systems such as epoxy, polyurethane, polyamide, and PPS, as well as prepreg suppliers. The midstream consists of carbon fiber composite manufacturers and automotive composite component manufacturers, producing automotive structural and exterior components through RTM, SMC, and prepreg compression molding processes. The downstream mainly includes automotive manufacturers, including both internal combustion engine vehicles and new energy vehicles, with new energy vehicles being a major driver of demand due to higher

lightweighting requirements.

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

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

Highlights and key features of the study

Global Carbon Fiber Automotive Composites total production and demand, 2021-2032, (Kilotons)

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

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

Global Carbon Fiber Automotive Composites consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

Global Carbon Fiber Automotive Composites production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Fiber Automotive Composites production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Fiber Automotive Composites 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, Teijin, Mitsubishi, SGL, Formosa Plastics, Hexcel, 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 Automotive Composites 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 Carbon Fiber Automotive Composites Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Automotive Composites Market, Segmentation by Type:

Thermosetting Composites

Thermoplastic Composites

Global Carbon Fiber Automotive Composites Market, Segmentation by Manufacturing Process:

Prepreg Molding

RTM (Resin Transfer Molding)

SMC (Sheet Molding Compound)

Compression Molding

Global Carbon Fiber Automotive Composites Market, Segmentation by Vehicle Type:

Passenger Vehicles

Commercial Vehicles

New Energy Vehicles

High-performance and Racing Vehicles

Global Carbon Fiber Automotive Composites Market, Segmentation by Application:

Exterior Components

Functional Components

Structural Components

Companies Profiled:

Toray

Teijin

Mitsubishi

SGL

Formosa Plastics

Hexcel

Key Questions Answered:

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

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