

Global Carbon Fiber Automotive Composites Market Growth 2026-2032

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Abstracts

The global Carbon Fiber Automotive Composites market size is predicted to grow from US\$ 910 million in 2025 to US\$ 1457 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 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.

United States market for Carbon Fiber Automotive Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Carbon Fiber Automotive Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Carbon Fiber Automotive Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Carbon Fiber Automotive Composites players cover Toray, Teijin, Mitsubishi, SGL, Formosa Plastics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Carbon Fiber Automotive Composites Industry Forecast" looks at past sales and reviews total world Carbon Fiber Automotive Composites sales in 2025, providing a comprehensive analysis by region and market sector of projected Carbon Fiber Automotive Composites sales for 2026 through 2032. With Carbon Fiber Automotive Composites sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Fiber Automotive Composites industry.

This Insight Report provides a comprehensive analysis of the global Carbon Fiber Automotive Composites landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Carbon Fiber Automotive Composites portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon Fiber Automotive Composites market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Fiber Automotive Composites and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Carbon Fiber Automotive

Composites.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Fiber Automotive Composites market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermosetting Composites

Thermoplastic Composites

Segmentation by Manufacturing Process:

Prepreg Molding

RTM (Resin Transfer Molding)

SMC (Sheet Molding Compound)

Compression Molding

Segmentation by Vehicle Type:

Passenger Vehicles

Commercial Vehicles

New Energy Vehicles

High-performance and Racing Vehicles

Segmentation by Application:

Exterior Components

Functional Components

Structural Components

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Toray

Teijin

Mitsubishi

SGL

Formosa Plastics

Hexcel

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carbon Fiber Automotive Composites market?

What factors are driving Carbon Fiber Automotive Composites market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Carbon Fiber Automotive Composites market opportunities vary by end market size?
How does Carbon Fiber Automotive Composites break out by Type, by Application?

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