

Carbon Fiber Composites Market Size and Forecast (2021 - 2034), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Resin Type (Thermoset and Thermoplastic), Process Type (Lay Up, Resin Transfer Molding (RTM), Pultrusion, Filament Winding, and Others), Precursor Type (PAN-based carbon fiber composites and Pitch-based carbon fiber composites), and End-Use Industry (Automotive, Aerospace and Defense, Wind, Construction, Marine, Sporting Goods, and Others)

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Abstracts

The carbon fiber composites market size was valued at US\$ 23.39 billion in 2025 and is expected to reach US\$ 48.22 billion by 2034; it is estimated to register a CAGR of 8.4% from 2026 to 2034.

The carbon fiber composites market growth is attributed to their lightweight, strong, and durable characteristics, which are used in aerospace, automotive, wind energy, construction, and sporting goods applications. Carbon fiber composites offer high strength, corrosion resistance, and lightweight properties, essential for fuel-efficient vehicles, aircraft parts, and renewable energy. Manufacturers are turning to lightweight materials as a response to the growing environmental concerns and strict emission standards. Expansion of vehicles running on electricity and modern infrastructure is also contributing to the market's growth. However, in cost-sensitive industries, high manufacturing costs, complex production processes, and recycling challenges may restrict adoption. Innovations in composite technologies—composite materials,

automated production systems, and sustainable resin—are enhancing the quality and productivity of composite products. High growth in investment in renewable energy, industrial growth, and high-performance applications is also helping to drive demand. Carbon fiber composites remain a significant component of the field of advanced materials, providing reliable, versatile, and performance-driven solutions to meet the changing demands of industry.

The carbon fiber composites market analysis has been performed by considering the following segments: resin type, process type, precursor type, and end-use industry. By resin type, the carbon fiber composites market is divided into thermoset and thermoplastic. The thermoset segment accounted for the largest carbon fiber composites market share in 2025. The aerospace, automotive, wind, construction, and industrial sectors consider thermoset resins to have superior mechanical strength, thermal stability, chemical resistance, and durability, making them highly preferred. They are employed in structural applications, aviation components, automotive body panels, wind turbine blades, and other high-performance industrial machinery where dimensions, weight, and longevity are critical. Thermoset CFRP materials have superior stiffness properties, fatigue endurance, and adhesion properties, and can be used in challenging environments and advanced engineering applications. These properties make them popular for mass production, as they are highly efficient in processing, compatible with different molding methods, and can maintain their structure in harsh environments. The well-developed supply chains and the ongoing innovations in resin chemistry and curing technology contribute to the growth of the segment. The global carbon fiber composites market is expected to remain dominated by the thermoset segment due to the increasing demand for lightweight materials, fuel-efficient vehicles, renewable energy systems, and high-performance infrastructure.

The carbon fiber composites market is segmented into five main regions—North America, Europe, Asia Pacific, the Middle East & Africa, and South & Central America. Asia Pacific is expected to register the fastest CAGR in the global carbon fiber composites market from 2026 to 2034, driven by increased use of lightweight materials in aerospace, automotive, wind, and construction areas. The industrialization, growing production of electric vehicles, and rising investments in renewable energy projects are driving the consumption of carbon fiber composites. China, Japan, India, and other countries are improving their production capabilities, advanced manufacturing facilities, and supply chain networks. Market expansion is further fueled by increasing demand for fuel-efficient vehicles, wind turbine installations, and high-performance industrial applications. Regional market leadership is further strengthened by strong government support.

Some of the key players operating in the global carbon fiber composites market include DuPont de Nemours Inc, Gurit Holding AG, Mitsubishi Chemical Group Corp, Owens Corning, SGL Carbon SE, Teijin Ltd, Solvay SA, Toray Industries Inc, Hexcel Corp, and Reliance Industries Ltd. Players operating in the carbon fiber composites market focus on providing high-quality products to fulfill customer demand. Also, they are focusing on launching new and high-quality products for their customers.

The overall global carbon fiber composites market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the carbon fiber composites market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the carbon fiber composites market.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Carbon Fiber Composites market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Carbon Fiber Composites market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Carbon Fiber Composites market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation,

pricing, and distribution

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