

# Global Bidirectional Carbon Fiber Prepreg Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Bidirectional Carbon Fiber Prepreg market size is expected to reach \$ 659 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Biaxially oriented carbon fiber prepreg is a composite material semi-finished product made by pre-impregnating 0°/90° carbon fiber woven fabric (plain weave/twill weave/satin weave, etc.) with epoxy, phenolic, BMI, or thermoplastic resins as reinforcement, with precise control over resin content, thickness, and volatile matter. This facilitates stable laying and molding, making it suitable for biaxial load-bearing structural components.

Upstream industries include PAN-based carbon fiber and fabric auxiliaries, resin/curing agent/toughening agent, release paper/film, and other auxiliary materials, as well as testing and standardization services. Downstream industries mainly serve manufacturers and end-user brands of composite components for aerospace secondary structures, automotive/rail transit lightweighting, wind power local reinforcement and repair, shipbuilding and industrial equipment, sports and leisure, and drones.

In 2025, the global price of biaxially oriented carbon fiber prepreg was \$131/kg, with sales of 3,320 tons, an average annual production capacity of approximately 125 tons per production line, and an industry profit margin of 15-20%.

Global Market Future Development Trends:

Demand will continue to be driven by lightweighting and electrification. The automotive and rail transportation sectors, aiming for weight reduction and efficiency improvements, are increasingly favoring scalable biaxially oriented prepreps. Larger-scale wind power projects are increasing demand for localized reinforcement and repair. Simultaneously, drones, robots, and high-end sports equipment are driving up demand for stable and consistent prepreps.

Process technology is evolving towards automation-friendly and rapid prototyping. The

proportion of biaxially oriented prepregs, better suited for automated cutting and application, hot pressing/molding, OOA (Out of Air) systems, and rapid curing, is increasing. Resin systems, while maintaining toughness and fatigue resistance, are reducing tackiness, improving lay-up window and shelf life, thus helping to reduce scrap rates in mass production.

Sustainability and compliance will become key competitive focuses. Solutions with low volatility, low solvent content, and higher recycled carbon fiber content will become more common. Thermoplastic prepregs are rapidly penetrating the transportation sector due to their recyclability and weldability. On the supply chain side, regionalized production capacity, quality traceability, batch consistency, and certification testing capabilities will further raise the industry's entry barriers.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Bidirectional Carbon Fiber Prepreg 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 Hexcel Corporation, Toray Advanced

Composites, Syensqo, Teijin Carbon, Mitsubishi Chemical Corporation, Gurit, SGL Carbon, Axiom Materials, Park Aerospace, ISOVOLTA, 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 Bidirectional Carbon Fiber Prepreg 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 Bidirectional Carbon Fiber Prepreg Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional Carbon Fiber Prepreg Market, Segmentation by Type:

Plain Weave

Twill Weave

Satin Weave

### Global Bidirectional Carbon Fiber Prepreg Market, Segmentation by Resin Systems:

Flame-Retardant Epoxy

Phenolic Resin

High-Temperature Resistant Systems Such As Bmi/Pi

Others

### Global Bidirectional Carbon Fiber Prepreg Market, Segmentation by Curing Conditions:

Room Temperature Curing

Medium Temperature Curing

High Temperature Curing

### Global Bidirectional Carbon Fiber Prepreg Market, Segmentation by Application:

Electronics

Aerospace

Automotive

Sporting Goods

Others

### **Companies Profiled:**

Hexcel Corporation

Toray Advanced Composites

Syensqo

Teijin Carbon

Mitsubishi Chemical Corporation

Gurit

SGL Carbon

Axiom Materials

Park Aerospace

ISOVOLTA

SHD Composites

PRF Composites

Barrday

Delta Preg (Toray Group)

TCR Composites

### **Key Questions Answered:**

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

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