

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

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## Abstracts

The global Flame Retardant Carbon Fiber Prepreg market size is expected to reach \$ 595 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Flame-retardant carbon fiber prepreg is a composite material semi-finished product made by pre-impregnating carbon fiber reinforcement (fabric/unidirectional tape) with a flame-retardant resin system (such as epoxy, BMI, phenolic, etc.) and controlling the resin content and volatile matter. It combines high specific strength/specific modulus with flame retardancy, low smoke, and low toxicity, making it suitable for structural components with strict fire safety requirements.

Upstream industries include carbon fiber precursor and carbon fiber (mainly PAN-based), flame-retardant resin and curing agent, flame-retardant additives (phosphorus/nitrogen-based, halogen-free systems), surface treatment agents, and release paper/film, among other auxiliary materials. Downstream customers are mainly manufacturers of structural and interior components in fields such as rail transportation, aerospace, shipbuilding and marine engineering, wind power and energy storage, building reinforcement, and new energy vehicles.

In 2025, the global unit price of flame-retardant carbon fiber prepreg was \$124/kg, with sales of 3,127 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:

Regulations and safety standards will continue to drive demand. Stricter requirements for flame retardancy, smoke density, and toxicity (FST) in rail transit, aircraft cabins, ship cabins, and buildings are driving upgrades from traditional metal/glass fiber to lightweight and highly flame-retardant carbon fiber composites, with applications expanding from interior trim to secondary structures and functional components.

Material systems are evolving towards a combination of high performance and ease of

processing. Halogen-free, low-smoke flame-retardant formulations, high-temperature resistant resins (BMI/PEEK, etc.), and toughening technologies work synergistically to balance flame retardancy and mechanical properties; greater emphasis is placed on lay-upability, automated molding windows (AFP/ATL, autoclave OOA, RTM preforms), and stable storage life to reduce manufacturing costs and batch consistency risks.

Low carbon and sustainability will become new competitive advantages. Higher proportions of recycled carbon fiber, recyclable thermoplastic prepregs, solvent emission reduction and energy consumption optimization processes will be adopted more quickly; on the supply chain, regionalized production capacity and certification systems (material traceability, batch consistency, third-party FST testing) will raise the industry threshold, and joint development between leading material suppliers and end customers will become more common.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Flame Retardant 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, TorayAdvanced Composites USA, Weihai Guangwei Composites, UTTECH, LANGSHENG High-tech Materials, Mitsubishi Chemical Corporation, Kumair, LLC, CA Composites, Stanford Advanced Materials, WEIHAI LANKE COMPOSITE TECHNOLOGY CO.,LTD., 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 Flame Retardant 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 Flame Retardant Carbon Fiber Prepreg Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flame Retardant Carbon Fiber Prepreg Market, Segmentation by Type:

Carbon Fiber Woven Prepreg

## Carbon Fiber Unidirectional Prepreg

Global Flame Retardant Carbon Fiber Prepreg Market, Segmentation by Resin Systems:

Flame-Retardant Epoxy

Phenolic Resin

High-Temperature Resistant Systems Such As Bmi/Pi

Others

Global Flame Retardant Carbon Fiber Prepreg Market, Segmentation by Flame-Retardant Mechanisms:

Halogen-Free Flame Retardants

Halogen-Containing Flame Retardants

Global Flame Retardant Carbon Fiber Prepreg Market, Segmentation by Application:

Aerospace

Automotive

Electronics and Electrical Appliances

Construction

Others

### **Companies Profiled:**

Hexcel Corporation

TorayAdvanced Composites USA

Weihai Guangwei Composites

UTTECH

LANGSHENG High-tech Materials

Mitsubishi Chemical Corporation

Kumair, LLC

CA Composites

Stanford Advanced Materials

WEIHAI LANKE COMPOSITE TECHNOLOGY CO.,LTD.

Dragonplate

**Key Questions Answered:**

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

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