

## **Carbon Fiber Prepreg Market Size, Share, Trends and Forecast by Manufacturing Process, Resin Type, Resin, End Use Industry, and Region, 2025-2033**

Market Report | 2025-01-18 | 131 pages | IMARC Group

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### **Report description:**

The global carbon fiber prepreg market size was valued at USD 11.30 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 20.9 Billion by 2033, exhibiting a CAGR of 7.1% during 2025-2033. North America currently dominates the market, holding a significant market share of over 35.4% in 2024. The increasing demand for lightweight materials in the aerospace industry to improve fuel efficiency is stimulating the market.

Carbon fiber prepreg refers to a carbon fiber that has been pre-impregnated with catalyzed resins. It is manufactured using thermoset resins, such as epoxy, polyimide, phenols and thermoplastics, through hot melt and solvent dip techniques. These fibers are led through a comb and laid on a carrier paper for lamination with the resin content, which is further covered with another layer of carrier paper. It exhibits high operational strength, stability and resistance to corrosion, fatigue, fire, moisture and chemicals. It is also highly cost-effective and environment-friendly and finds extensive applications across various such as aerospace, defense, automotive, wind energy, sports and recreation, medical, construction, etc.

### **Carbon Fiber Prepreg Market Trends:**

Rapid industrialization, along with increasing adoption of green energy sources, is one of the key factors driving the growth of the market. Furthermore, the steady expansion of the automotive industry is also providing a boost to the market growth. Carbon prepreps are increasingly replacing metals in the production of various automobile components, such as bumpers, fenders, splitters, wheel arches, brake ducts and vents. Additionally, widespread product adoption for the manufacturing of various aerospace equipment is also favoring the market growth. Owing to the several associated benefits, such as high physical strength and structural performance with minimal weight, carbon prepreps are used in the production of cabin linings, air ducts, plenums, bars, seats, partitions, trailing edges and brackets. They are also utilized for manufacturing various sports accessories, such as tennis rackets, bicycles, fishing rods and golf shafts. Other factors, including multiple product innovations and extensive research and development (R&D) activities, are expected to drive the market further.

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Carbon Fiber Prepreg Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global carbon fiber prepreg market, along with forecast at the global, regional, and country levels from 2025-2033. The market has been categorized based on manufacturing process, resin type, resin, and end use industry.

Breakup by Manufacturing Process:

Hot Melt  
Solvent Dip

Breakup by Resin Type:

Thermoset  
Thermoplastic

Breakup by Resin:

Phenolic  
Epoxy  
Bismaleimide  
Polyimide  
Cynate Ester  
PEEK  
Others

Breakup by End Use Industry:

Aerospace and Defense  
Automotive  
Wind Energy  
Sports and Recreation  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe

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Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Axiom Materials Inc. (Kordsa Incorporated), Gurit (Tianjin) Composite Material Co. Ltd., Hexcel Corporation, Koninklijke Ten Cate B.V. (Tennessee Acquisition Holding B.V.), Mitsubishi Chemical Holdings Corporation, Park Aerospace Corp., Plastic Reinforcement Fabrics Ltd., SGL Carbon SE, Solvay (Daikin), TCR Composites Inc. (ATK Launch Systems), Teijin Limited and Toray Industries Inc.

#### Key Questions Answered in This Report

1. What is carbon fiber prepreg?
2. How big is the global carbon fiber prepreg market?
3. What is the expected growth rate of the global carbon fiber prepreg market during 2025-2033?
4. What are the key factors driving the global carbon fiber prepreg market?
5. What is the leading segment of the global carbon fiber prepreg market based on manufacturing process?
6. What is the leading segment of the global carbon fiber prepreg market based on resin type?
7. What is the leading segment of the global carbon fiber prepreg market based on resin?
8. What is the leading segment of the global carbon fiber prepreg market based on end use industry?
9. What are the key regions in the global carbon fiber prepreg market?
10. Who are the key players/companies in the global carbon fiber prepreg market?

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