

Carbon Fiber Prepreg Market Size, Share & Trends Analysis Report By Resin Type (Thermoset, Thermoplastic), By End Use (Aerospace & Defense, Automotive, Wind Energy, Sporting Goods), By Region, And Segment Forecasts, 2026 - 2033

<https://marketpublishers.com/r/C524F5FE2B5AEN.html>

Date: February 2026

Pages: 107

Price: US\$ 5,950.00 (Single User License)

ID: C524F5FE2B5AEN

Abstracts

The global carbon fiber prepreg market size was estimated at USD 12.82 billion in 2025 and is projected to reach USD 23.39 billion by 2033, growing at a CAGR of 7.4% from 2026 to 2033. Demand for carbon fiber prepreg is increasing steadily due to its superior strength-to-weight ratio, high fatigue resistance, and excellent dimensional stability, making it ideal for high-performance applications.

Aerospace manufacturers are increasingly using carbon fiber prepreps in fuselages, wings, and structural components to reduce aircraft weight and improve fuel efficiency. The automotive sector, particularly electric vehicles, is also adopting prepreps to enhance driving range through lightweighting. In addition, the expansion of wind energy projects is driving demand for long, lightweight, and durable turbine blades manufactured using carbon fiber prepreps. Growing usage in defense, sports equipment, and industrial applications further supports sustained demand growth.

Key drivers include the rapid growth of the aerospace industry, with increased aircraft production and fleet modernization programs emphasizing lightweight composite materials. The shift toward electric and hybrid vehicles is another major driver, as carbon fiber prepreps help manufacturers meet efficiency and emission reduction targets. Rising investments in renewable energy, particularly wind power, are accelerating adoption due to the material's high stiffness and fatigue resistance. Technological advancements such as automated fiber placement and improved resin systems are enhancing production efficiency and product performance. In addition,

increasing focus on high-performance materials in defense and space applications continues to fuel market growth.

The carbon fiber prepreg industry is witnessing strong innovation focused on enhancing performance, sustainability, and manufacturing efficiency. High-temperature and toughened resin systems are being developed for demanding aerospace and defense applications. Manufacturers are investing in automation technologies such as automated fiber placement to reduce waste and improve consistency. Sustainability trends include the development of recyclable prepregs and bio-based resin systems to lower environmental impact. Digitalization and process monitoring technologies are also being adopted to ensure quality control and optimize production cycles. These innovations are expanding the application scope of carbon fiber prepregs across multiple industries.

Global Carbon Fiber Prepreg Market Report Segmentation

This report forecasts revenue growth at regional & country levels and provides an analysis on the industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global carbon fiber prepreg market report based on the resin type, end use, and region:

Resin Type Outlook (Revenue, USD Billion, 2021 - 2033)

Thermoset

Thermoplastic

End Use Outlook (Revenue, USD Billion, 2021 - 2033)

Aerospace & Defense

Automotive

Wind Energy

Sporting Goods

Others

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Asia Pacific

China

Japan

India

Latin America

Middle East and Africa

This report can be delivered to the clients within 3 Business Days

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources
 - 1.3.4. Third-Party Perspectives
 - 1.3.5. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation and Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. CARBON FIBER PREPREG MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Value Chain Analysis
- 3.2. Regulatory Framework
- 3.3. Technology Overview
- 3.4. Market Dynamics
 - 3.4.1. Market driver analysis
 - 3.4.2. Market restraint analysis
 - 3.4.3. Industry opportunity
 - 3.4.4. Market Challenges
- 3.5. Business Environment Analysis
 - 3.5.1. Porter's Analysis
 - 3.5.1.1. Supplier Power
 - 3.5.1.2. Buyer Power
 - 3.5.1.3. Substitution Threat

- 3.5.1.4. Threat from New Entrant
- 3.5.1.5. Competitive Rivalry
- 3.5.2. PESTEL Analysis, by SWOT
 - 3.5.2.1. Political Landscape
 - 3.5.2.2. Environmental Landscape
 - 3.5.2.3. Social Landscape
 - 3.5.2.4. Technology Landscape
 - 3.5.2.5. Economic Landscape
 - 3.5.2.6. Legal Landscape

CHAPTER 4. CARBON FIBER PREPREG MARKET: RESIN TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Resin Type Takeaways
- 4.2. Resin Type Market Share Analysis, 2026 - 2033
- 4.3. Carbon Fiber Prepreg Market Estimates & Forecast, By Resin Type 2021 - 2033 (USD Million)
- 4.4. Thermoset
 - 4.4.1. Carbon Fiber Prepreg Market Estimates & Forecast, By Thermoset, 2021 - 2033 (USD Million)
- 4.5. Thermoplastic
 - 4.5.1. Carbon Fiber Prepreg Market Estimates & Forecast, By Thermoplastic, 2021 - 2033 (USD Million)

CHAPTER 5. CARBON FIBER PREPREG MARKET: END USE ESTIMATES & TREND ANALYSIS

- 5.1. End Use Takeaways
- 5.2. End Use Market Share Analysis, 2026 - 2033
- 5.3. Carbon Fiber Prepreg Market Estimates & Forecast, By End Use 2021 - 2033 (USD Million)
- 5.4. Aerospace & Defense
 - 5.4.1. Carbon Fiber Prepreg Market Estimates & Forecast, For Aerospace & Defense, 2021 - 2033 (USD Million)
- 5.5. Automotive
 - 5.5.1. Carbon Fiber Prepreg Market Estimates & Forecast, For Automotive, 2021 - 2033 (USD Million)
- 5.6. Wind Energy
 - 5.6.1. Carbon Fiber Prepreg Market Estimates & Forecast, For Wind Energy, 2021 -

2033 (USD Million)

5.7. Sporting Goods

5.7.1. Carbon Fiber Prepreg Market Estimates & Forecast, For Sporting Goods, 2021 - 2033 (USD Million)

5.8. Others

5.8.1. Carbon Fiber Prepreg Market Estimates & Forecast, For Others, 2021 - 2033 (USD Million)

CHAPTER 6. CARBON FIBER PREPREG MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Key Takeaways

6.2. Regional Market Share Analysis, 2026 - 2033

6.3. North America

6.3.1. North America Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.3.2. North America Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.3.3. North America Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.3.4. U.S.

6.3.4.1. U.S. Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.3.4.2. U.S. Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.3.4.3. U.S. Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.3.5. Canada

6.3.5.1. Canada Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.3.5.2. Canada Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.3.5.3. Canada Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.3.6. Mexico

6.3.6.1. Mexico Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.3.6.2. Mexico Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.3.6.3. Mexico Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.4. Europe

6.4.1. Europe Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.4.2. Europe Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.4.3. Europe Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.4.4. UK

6.4.4.1. UK Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.4.4.2. UK Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.4.4.3. UK Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.4.5. Germany

6.4.5.1. Germany Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.4.5.2. Germany Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.4.5.3. Germany Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.4.6. France

6.4.6.1. France Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.4.6.2. France Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.4.6.3. France Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.4.7. Italy

6.4.7.1. Italy Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.4.7.2. Italy Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.4.7.3. Italy Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.5. Asia Pacific

6.5.1. Asia Pacific Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033

(USD Million)

6.5.2. Asia Pacific Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.5.3. Asia Pacific Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.5.4. China

6.5.4.1. China Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.5.4.2. China Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.5.4.3. China Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.5.5. Japan

6.5.5.1. Japan Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.5.5.2. Japan Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.5.5.3. Japan Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.5.6. India

6.5.6.1. India Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.5.6.2. India Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.5.6.3. India Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.6. Latin America

6.6.1. Latin America Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.6.2. Latin America Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.6.3. Latin America Carbon Fiber Prepreg Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

6.7. Middle East and Africa

6.7.1. Middle East and Africa Carbon Fiber Prepreg Market Estimates & Forecasts, 2021 - 2033 (USD Million)

6.7.2. Middle East and Africa Carbon Fiber Prepreg Market Estimates & Forecasts, By Resin Type, 2021 - 2033 (USD Million)

6.7.3. Middle East and Africa Carbon Fiber Prepreg Market Estimates & Forecasts, By...

End Use, 2021 - 2033 (USD Million)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Competition Categorization

7.3. Company Market Positioning

7.4. Company Heat Map Analysis, 2025

7.5. Strategy Mapping, 2025

7.6. Company Listing

7.6.1. Hexcel Corporation

7.6.1.1. Company Overview

7.6.1.2. Financial Performance

7.6.1.3. Product Benchmarking

7.6.1.4. Strategic Initiatives

7.6.2. Mitsubishi Chemical Corporation

7.6.2.1. Company Overview

7.6.2.2. Financial Performance

7.6.2.3. Product Benchmarking

7.6.2.4. Strategic Initiatives

7.6.3. Toray Industries, Inc.

7.6.3.1. Company Overview

7.6.3.2. Financial Performance

7.6.3.3. Product Benchmarking

7.6.3.4. Strategic Initiatives

7.6.4. SGL Carbon

7.6.4.1. Company Overview

7.6.4.2. Financial Performance

7.6.4.3. Product Benchmarking

7.6.4.4. Strategic Initiatives

7.6.5. TEIJIN LIMITED

7.6.5.1. Company Overview

7.6.5.2. Financial Performance

7.6.5.3. Product Benchmarking

7.6.5.4. Strategic Initiatives

7.6.6. Arvind Composite

7.6.6.1. Company Overview

7.6.6.2. Financial Performance

7.6.6.3. Product Benchmarking

- 7.6.6.4. Strategic Initiatives
- 7.6.7. Bharat Composites
 - 7.6.7.1. Company Overview
 - 7.6.7.2. Financial Performance
 - 7.6.7.3. Product Benchmarking
 - 7.6.7.4. Strategic Initiatives
- 7.6.8. FIBERMAX
 - 7.6.8.1. Company Overview
 - 7.6.8.2. Financial Performance
 - 7.6.8.3. Product Benchmarking
 - 7.6.8.4. Strategic Initiatives
- 7.6.9. ACP COMPOSITES, INC.
 - 7.6.9.1. Company Overview
 - 7.6.9.2. Financial Performance
 - 7.6.9.3. Product Benchmarking
 - 7.6.9.4. Strategic Initiatives
- 7.6.10. Bhor Chemicals and Plastics Pvt. Ltd.
 - 7.6.10.1. Company Overview
 - 7.6.10.2. Financial Performance
 - 7.6.10.3. Product Benchmarking
 - 7.6.10.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 Carbon Fiber Prepreg Market Estimates & Forecast, By Resin Type 2021 - 2033 (USD Million)

Table 2 Carbon Fiber Prepreg Market Estimates & Forecast, By End Use 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Carbon Fiber Prepreg Market Segmentation & Scope
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Formulation And Validation
- Fig. 5 Data Validating & Publishing
- Fig. 6 Regional Outlook
- Fig. 7 Segmental Outlook
- Fig. 8 Competitive Outlook
- Fig. 9 Market Penetration & Growth Mapping
- Fig. 10 Value Chain Analysis
- Fig. 11 Carbon Fiber Prepreg: Market Dynamics
- Fig. 12 Market Driver Analysis
- Fig. 13 Market Restraint Analysis
- Fig. 14 Industry Analysis: Porter's
- Fig. 15 PESTEL analysis, by SWOT
- Fig. 16 Resin Type: Key Takeaways
- Fig. 17 Resin Type: Market Share, 2026 & 2033
- Fig. 18 Carbon Fiber Prepreg Market Estimates & forecasts, By Thermoset, 2021 - 2033 (USD Million)
- Fig. 19 Carbon Fiber Prepreg Market Estimates & forecasts, By Thermoplastic, 2021 - 2033 (USD Million)
- Fig. 20 End Use: Key Takeaways
- Fig. 21 End Use: Market Share, 2026 & 2033
- Fig. 22 Carbon Fiber Prepreg market estimates & forecasts, for Aerospace & Defense, 2021 - 2033 (USD Million)
- Fig. 23 Carbon Fiber Prepreg market estimates & forecasts, for Automotive, 2021 - 2033 (USD Million)
- Fig. 24 Carbon Fiber Prepreg Market Estimates & Forecast, For Wind Energy, 2021 - 2033 (USD Million)
- Fig. 25 Carbon Fiber Prepreg Market Estimates & Forecast, For Sporting Goods, 2021 - 2033 (USD Million)
- Fig. 26 Carbon Fiber Prepreg Market Estimates & Forecast, For Others, 2021 - 2033 (USD Million)
- Fig. 27 Region, 2026 & 2033, (USD Million)
- Fig. 28 Regional marketplace: Key takeaways

- Fig. 29 North America Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 30 U.S. Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 31 Canada Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 32 Mexico Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 33 Europe Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 34 UK Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 35 Germany Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 36 Italy Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 37 France Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 38 Asia Pacific Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 39 China Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 40 India Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 41 Japan Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 42 Latin America Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 43 Middle East and Africa Carbon Fiber Prepreg Market Estimates & forecast, 2021 - 2033 (USD Million)
- Fig. 44 Competition Categorization
- Fig. 45 Company Market Positioning
- Fig. 46 Company Heat Map Analysis, 2025

I would like to order

Product name: Carbon Fiber Prepreg Market Size, Share & Trends Analysis Report By Resin Type (Thermoset, Thermoplastic), By End Use (Aerospace & Defense, Automotive, Wind Energy, Sporting Goods), By Region, And Segment Forecasts, 2026 - 2033

Product link: <https://marketpublishers.com/r/C524F5FE2B5AEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C524F5FE2B5AEN.html>