

Carbon Fiber Prepreg Market By Resins (Thermoset Resins, Thermoplastic Resins) , By Process (Hot Melt Process, Solvent Dip Process) By End-Use Industry (Automotive, Aerospace and Defense, Sports and Leisure, Wind energy, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2030

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Abstracts

Carbon Fiber Prepreg Market

The carbon fiber prepreg market was valued at \$9.3 billion in 2023 and is projected to reach \$18.4 billion by 2030, growing at a CAGR of 10.2% from 2024 to 2030.

A carbon fiber prepreg is a composite of carbon fibers pre-impregnated with resins such as epoxy or thermoplastic prior to usage. It is a partially cured composite that retains adequate bonding properties for the final curing process. The key attributes of carbon fiber prepreg include its high strength, ease of use, durability, and coherent mechanical properties. The controlled quantity of resin enables manufacturers to easily cut & bend the prepreg and form desired shapes.

Increase in awareness regarding the benefits of lightweight materials in the automotive and aerospace industry is a key driver of the carbon fiber prepreg market. In addition, rise in focus on sustainability and fuel efficiency propels the market growth as lightweight automobiles require considerably less fuel for operation. The application of prepreg in the renewable energy sector, specifically wind energy systems, has been trending in the market in recent times. It is notably being used to manufacture long, lightweight wind turbine blades with high tensile strength and enhanced energy capture.

However, limited knowledge across diverse industries regarding the potential applications of carbon fiber prepreg hampers the development of the market. Furthermore, the preparation of prepreg is a capital-intensive process, which limits its adoption across budget-sensitive sectors and restrains the market growth. On the contrary, rise in demand for lightweight materials from the defense and space sectors is anticipated to present lucrative opportunities for the carbon fiber prepreg market. According to the 2025 Aerospace and Defense Industry Outlook by Deloitte, both industries are projected to focus on enhancing their unmanned systems, rocket technology, and space technology. Therefore, new avenues are projected to open for the carbon fiber prepreg market.

Segment Review

The carbon fiber prepreg market is segmented into resins, process, end-use industry, and region. On the basis of resins, the market is bifurcated into thermoset resins and thermoplastic resins. Depending on process, it is divided into hot melt process and solvent dip process. As per end-use industry, it is classified into automotive, aerospace & defense, sports & leisure, wind energy, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of resins, the thermoset resins segment held a high share of the market in 2023.

Depending on process, the hot melt process segment acquired a high stake in the market in 2023.

As per end-use industry, the aerospace & defense segment dominated the market in 2023.

Region wise, Europe was the highest revenue generator in 2023.

Competition Analysis

The major players in the global carbon fiber prepreg market include Toray Group, ZOLTEK Group, Hexcel Corporation, Mitsubishi Rayon Co., Ltd., GL Group, Royal TenCate N.V., Teijin Limited, Gurit Holdings AG, Axiom Materials, Inc., and Solvay S.A. These major players have adopted various key development strategies such as

business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Manufacturing Capacity

Capital Investment breakdown

Industry life cycle assessment, by region

Investment Opportunities

Product Benchmarking / Product specification and applications

Product Life Cycles

Upcoming/New Entrant by Regions

Consumer Preference and Product Specifications

Go To Market Strategy

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Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

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Key Market Segments

Carbon Fiber Prepreg Market By Resins (Thermoset Resins, Thermoplastic Resins) , By Process (Hot Melt Process,...

By Resins

Thermoset Resins

Epoxy

Phenolic

Bismaleimide

Cyanate Ester

Others

Thermoplastic Resins

By Process

Hot Melt Process

Solvent Dip Process

By End-Use Industry

Automotive

Aerospace and Defense

Sports and Leisure

Wind energy

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Toray Group

ZOLTEK Group

Hexcel Corporation

Mitsubishi Rayon Co., Ltd.

GL Group

Royal TenCate N.V

Teijin Limited

Gurit Holdings AG

Axiom Materials, Inc.

Solvay S.A.

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