

Carbon Fiber Prepreg Market by Resin Type (Epoxy, Phenolic, Thermoplastic, BMI, Polyimide), Manufacturing Process (Hot Melt, Solvent Dip), End-use Industry (Aerospace & Defense, Automotive, Sports & Recreation, Wind Energy) - Global Forecast to 2027

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Abstracts

The global carbon fiber prepreg market size is expected to grow from USD 9.7 billion in 2022 to USD 18.9 billion by 2027, at a CAGR of 14.2% during the forecast period. Carbon fiber prepreps have properties such as self-adhesiveness, flame retardancy, high service temperatures, high strength, high rigidity, lightweight, and so on. Each type of carbon fiber prepreg provides specific characteristics suitable for different conditions. Carbon fiber prepreg is mainly used for manufacturing components in aerospace & defense, automotive, sporting & recreation, wind, and other industries.

“Hot melt manufacturing process is the fastest-growing manufacturing process of carbon fiber prepreg, in terms of value.”

The global carbon fiber prepreg market is categorized based on the manufacturing process into hot melt and solvent dip processes. The hot melt process is dominantly used as the machinery required to perform the hot melt process is less complex than the machinery used in the solvent dip process. Furthermore, this process is less hazardous, and no organic solvents are consumed or emitted during operations.

“Phenolic is the second-fastest-growing resin type of carbon fiber prepreg, in terms of value.”

Phenolic resin is expected to grow significantly in upcoming years. Phenolic resin is lighter than steel and is also 20-30% lighter than flame and smoke retardant polyester and vinyl ester resins. Some of the major applications of phenolic resin in the aerospace & defense industry includes ceiling panels, engine nacelle, side wall panels, galleys, floor panels, and many more. In automotive and rail industries, carbon fiber prepregs get widely used in rail interiors, lightweight car bodies, and racing car monocoque.

“Automotive is the fastest-growing end-use industry of carbon fiber prepreg, in terms of value.”

The market for carbon fiber prepreg is segmented into the end-use industry as aerospace & defense, automotive, sports & recreation, wind energy, and others. In terms of value, the carbon fiber prepreg market in the automotive sector is projected to register the highest CAGR during the forecasted period. This is due to the high demand for carbon fiber prepreg for electric and high-end racing cars manufactured by BMW, Lamborghini, Chevrolet, etc. In the electric cars category, apart from the BMW i3 and i8, BMW has also used carbon fiber implants in its next-generation 7-Series sedan.

“Europe is the fastest-growing carbon fiber prepreg market.”

Europe is the fastest-growing and the biggest market for carbon fiber prepreg. The market in the region is driven by the demand from aerospace & defense, automotive, and wind energy industries. Carbon fiber prepreg is widely used in the aerospace & defense industry, and the presence of large aircraft manufacturers such as Airbus (France) and Boeing (US) in this region has made it the biggest market for carbon fiber prepreg.

This study has been validated through primaries conducted with various industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 60%, Tier 2- 20%, and Tier 3- 20%

By Designation- C Level- 33%, Director Level- 33%, and Managers- 34%

By Region- North America- 20%, Europe- 25%, APAC- 25%, Latin America-10%, MEA-20%,

The report provides a comprehensive analysis of the company profiles listed below:

Mitsubishi Chemical Carbon Fiber and Composites, Inc. (Japan)

Solvay (Belgium)

Teijin Limited (Japan)

Toray Industries Inc. (Japan)

Hexcel Corporation (US),

Gurit Holding AG (Switzerland)

SGL Carbon (Germany)

Park Aerospace Corp. (US)

Axiom Materials, Inc. (US)

Others

Research Coverage

This report covers the global carbon fiber prepreg market and forecasts the market size until 2027. The report includes the market segmentation –Resin Type (epoxy, phenolic, thermoplastic, bismaleimide (BMI), polyimide, and others), Manufacturing Process (hot melt and solvent dip), End-use Industry (aerospace & defense, automotive, sports & recreation, wind energy, and others), and Region (Europe, North America, APAC, Latin America, and MEA). Porter's Five Forces analysis, along with the drivers, restraints, opportunities, and challenges, are discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global carbon fiber prepreg market.

Key benefits of buying the report:

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global carbon fiber prepreg market comprehensively and provides the closest approximations of the revenues for the overall market and the sub-segments across different verticals and regions.
2. The report helps stakeholders understand the pulse of the carbon fiber prepreg market and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to better their position in their businesses. The competitive landscape section includes the competitor ecosystem, new product development, agreement, and acquisitions.

Reasons to buy the report:

The report will help market leaders/new entrants in this market by providing them with the closest approximations of the revenues for the overall carbon fiber prepreg market and the sub-segments. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

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9.6.1 MIDDLE EAST & AFRICA: CARBON FIBER PREPREG MARKET, BY RESIN TYPE

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9.6.4.1.1 Growing economy supporting growth of carbon fiber prepreg market in South Africa

9.6.4.1.2 South Africa: Carbon fiber prepreg market, by end-use industry

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9.6.4.2 Saudi Arabia

9.6.4.2.1 Growing aerospace & defense industry to drive carbon fiber prepreg market

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9.6.4.4 Rest of Middle East & Africa

9.6.4.4.1 Steady growth of economy and increasing aircraft production driving market

9.6.4.4.2 Rest of Middle East & Africa: Carbon fiber prepreg market, by end-use industry

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*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, Deals, Other developments, MnM view, Right to win, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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