+44 20 8123 2220
info@marketpublishers.com

Prepreg Market by Fiber Type (Glass, Carbon, Others), By Resin Type (Thermoset, Thermoplastic), Form (Tow, Fabric), Manufacturing, Application (Aerospace & Defense, Wind Energy, Sporting Goods, Automotive) and Region - Global Forecast 2026

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Abstracts

The global prepreg market size is estimated at USD 7.0 billion in 2021 and is projected to reach USD 12.6 billion by 2026, at a CAGR of 12.5%. Prepreg is being used in the aerospace & defense, wind energy, automotive, sporting goods, electronics, and other end-use industries. The increasing wind energy projects and demand of lightweight material from automotive industry support the demand for prepreg in the wind energy and automotive end-use industry.

“Carbon Fiber Reinforcement Type is the fastest-growing Fiber Reinforcement Type of prepregs, in terms of value.”

The carbon fiber prepregs find wide applications in various end-use industries. Carbon fiber prepregs are used in automotive, sporting goods, and leisure items such as vehicles (motorcycle) rim and integral spokes structural components. The use of carbon fiber prepregs in these applications provides 40–50% weight reduction over their conventional aluminum counterparts.

“Thermoplastic Prepreg is the fastest-growing resin type of prepreg, in terms of value.”

The prepreg products are mainly used in industries such as aerospace & defense, automotive and sporting goods. In the aerospace & defense sector, due to their recyclability, good shelf life, lightweight, tough, and high stiffness, thermoplastic prepregs are used to make a variety of structural components. The increasing demand

for prepregs from aerospace & defense, wind energy, and automotive applications is expected to drive the market during the forecast period.

“Tow Prepreg is the fastest-growing Form of prepreg, in terms of value.”

The tow prepreg form of the prepreg is fastest-growing form in prepreg market. Towpregs are typically used in the filament winding process to construct high-strength structures in aerospace & defense, automotive, and other industries. The use of the filament winding process results in higher productivity for manufacturers. These materials are used in the automotive, aerospace, oil & gas, sports & recreation, and other industries.

“Hot-Melt Process is the fastest-growing manufacturing process of prepreg, in terms of value.”

Due to the eco-friendly nature and less complex machinery, the hot-melt process is preferred over the solvent dip process. Environmentally, this process is less hazardous as small or no organic solvents are consumed or emitted during operations.

“Wind Energy is the fastest-growing application of prepreg, in terms of value.”

In the wind energy application, the critical component of wind turbines uses composites and prepregs for bigger size turbines. Growing environmental concerns in Asia Pacific countries such as China and India are expected to boost the demand for wind energy during the forecast period.

“APAC is the fastest-growing prepreg market.”

APAC is the largest prepreg market in terms of volume and is expected to maintain its lead during the forecast period. The remarkable growth of the wind energy industry has driven the expansion of the market in the region. China is leading the Asia Pacific prepreg market in the wind energy industry, with 71.7 GW new wind capacity installed in 2020. Favorable government policies, to protect the economies from volatile fossil fuel prices and take steps against harmful GHGs emissions, are expected to drive the wind energy industry in Asia Pacific, stimulating the demand for prepreg in the region. North America is the second major consumer of prepregs aerospace & defense, and wind energy are the major industries fueling the growth of the prepreg market in this region.

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- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 30%, and Others- 20%

By Region- North America- 15%, Europe- 50%, APAC- 20%, Latin America-5%, MEA-10%,

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

Solvay Group (Belgium)

Hexcel Corporation (United States)

Toray Industries, Inc. (Japan)

Teijin Limited (Japan)

Mitsubishi Chemical Holdings Corporation (Japan)

SGL Group (Germany)

Axiom Materials (United States)

Gurit Holding AG (Switzerland)

Park Aerospace Corp. (United States)

Plastic Reinforcement Fabrics Ltd. (United Kingdom)

Research Coverage

This report covers the global prepreg market and forecasts the market size until 2026. The report includes the market segmentation –Type of Reinforcement (Carbon Fiber Prepreg, Glass Fiber Prepreg, and others), Resin Type (Thermoset, and

Thermoplastic), Form (Tow, and Fabric), Manufacturing Process (Hot-Melt, and Solvent Dip Process), Application (Aerospace & Defense, Wind Energy, Automotive, Sporting Goods, Electronics (PCB), 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 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 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 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 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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