

# Opportunities and Competitive Analysis of the Carbon Fiber Reinforced Plastic Market

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## Abstracts

The future of the carbon fiber reinforced plastic market looks promising with opportunities in aerospace, automotive, wind energy, marine, sporting goods, construction, pressure vessel, and others. The global carbon fiber reinforced plastic market declined in 2020 due to the global economic recession led by COVID-19. However, the market will witness recovery in the year 2021, and it is expected to reach an estimated \$10.2 billion by 2026 with a CAGR of 6.2% from 2021 to 2026. The major drivers for this market are growing demand for high performance and lightweight composite materials and increasing performance requirements in the various end use industries.

Emerging trends, which have a direct impact on the dynamics of the industry, include the development of technologies like plasma oxidation (used to oxidize the PAN precursor) and HP-RTM, will reduce the cost of raw material and reuse of CFRP is another emerging trend as it recycled carbon fiber reduces cost of product and environmental impact. GKN Fokker, Mitsubishi, Voith, Hexcel Corporation, SGL Group, Plasan Carbon Composite, DowAksa and Toray., and others are among the major carbon fiber reinforced plastic manufacturers.

A total of 121 figures / charts and 95 tables are provided in this 223-page report to help in your business decisions. A sample figure with insights is shown below. To learn the scope of benefits, companies researched, and other details of the global carbon fiber reinforced plastic market report, please download the report brochure.

The study includes trends and forecast for the global carbon fiber reinforced plastic market by end use industry, by product, and region as follows:

By End Use Industry [Volume (M lbs) and \$B shipment analysis from 2015 to 2026]:

Aerospace

Automotive

Wind Energy

Marine

Sporting Goods

Construction

Pressure Vessel

Others

By Resin [Volume (M lbs) and \$B shipment analysis from 2015 to 2026]:

Epoxy

Phenolic

Polyester

Vinyl ester

PEEK

PPS

PEI

PA

Others

By Process Type [Volume (M lbs) and \$B shipment analysis from 2015 to 2026]:

Prepreg Layup

RTM

Injection Molding

Compression Molding

Filament Winding

Pultrusion

Others

By Region [Volume (M lbs) and \$B shipment analysis from 2015 to 2026]:

North America

Europe

Asia Pacific

Rest of the world

In this market, epoxy, phenolic, vinyl ester, polyester, PEEK, PPS, PEI, and PA are the major resin systems used for manufacturing CFRP products. Lucintel forecasts that epoxy based CFRP will remain the largest segment by value and volume and PEI is expected to witness the highest growth over the forecasted period.

Within the global carbon fiber reinforced plastic market, aerospace will remain the largest end use industry by value. Pressure Vessel is expected to witness the highest growth over the forecast period due to the increasing demand for high performance lightweight materials.

By process, prepreg layup, RTM, compression molding, injection molding, filament winding and pultrusion are the major CFRP manufacturing process. Prepreg layup will remain the largest segment by value and volume and filament winding is expected to witness the highest growth over the forecast period.

North America will remain the largest region by value and volume due to the growth in automotive and aerospace industries. Europe is expected to witness the highest growth over the forecast period.

Some of the global carbon fiber reinforced plastic manufacturers profiled in this report include are GKN Fokker, Mitsubishi, Voith, Hexcel Corporation, SGL Group, Plasan Carbon Composite, DowAksa and Toray.

#### Features of the Global Carbon Fiber Reinforced Plastic Market

**Market Size Estimates:** Carbon Fiber Reinforced Plastic market size estimation in terms of value (\$B) and volume (M lbs) shipment

**Trend and Forecast Analysis:** Carbon Fiber Reinforced Plastic Market trends (2015-2020) and forecast (2021-2026) by various segments and regions.

**Segmentation Analysis:** Carbon Fiber Reinforced Plastic market size by various segments, such as end use industry, by product, and regions in terms of value and volume.

**Regional Analysis:** Carbon Fiber Reinforced Plastic market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

**Growth Opportunities:** Analysis on growth opportunities in different end use industry, by product, and regions for the global carbon fiber reinforced plastic market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the global carbon fiber reinforced plastic market.

**Analysis of competitive intensity of the industry based on Porter's Five Forces model.**

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global carbon fiber reinforced plastic market by end use industry, by resin ,by process, and region (North America, Europe, Asia Pacific, and Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the global carbon fiber reinforced plastic market?

Q.5 What are the business risks and threats to the global carbon fiber reinforced plastic market?

Q.6 What are emerging trends in this global carbon fiber reinforced plastic market and the reasons behind them?

Q.7 What are some changing demands of customers in the global carbon fiber reinforced plastic market?

Q.8 What are the new developments in the global carbon fiber reinforced plastic market? Which companies are leading these developments?

Q.9 Who are the major players in the global carbon fiber reinforced plastic market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in the global carbon fiber reinforced plastic market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M&A activities did take place in the last five years in the global carbon fiber reinforced plastic market?

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