

Global Bio-based Resin Carbon Fiber Prepreg Market Growth 2026-2032

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Abstracts

The global Bio-based Resin Carbon Fiber Prepreg market size is predicted to grow from US\$ 268 million in 2025 to US\$ 779 million in 2032; it is expected to grow at a CAGR of 16.8% from 2026 to 2032.

Bio-based resin carbon fiber prepreg is a carbon-fiber reinforced intermediate material in which the matrix resin contains a significant share of renewable, bio-based content (typically 10-80% bio-carbon in the resin, sometimes higher), while the reinforcement is conventional PAN-based or recycled carbon fiber. Typical chemistries include bio-based epoxy systems, plant-derived epoxy blends, furan resins from sugar-cane by-products, and bio-based thermoplastics such as PA11 and PPA.

Upstream, these prepregs depend on high-grade carbon fibers, bio-based resin building blocks, curing agents, tougheners and flame-retardant packages tuned to meet FST and mechanical requirements, and conventional prepreg auxiliaries. Downstream, bio-based resin carbon fiber prepregs are already used in aircraft and rail interior panels, automotive structural and body parts, winter-sports equipment, marine structures, and are being evaluated for wind turbine components and hydrogen storage tanks, where sustainability and life-cycle CO₂ reduction are becoming primary design drivers.

In 2024, global sales of bio-based resin carbon fiber prepreg reached approximately 2,787 tons, with an average global market price of around US\$ 86/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 40%.

From an overall perspective, bio-based resin carbon fiber prepregs remain a relatively new and niche category within the carbon fiber prepreg market, but their growth rate is

significantly faster than that of traditional systems. Current demand primarily comes from aerospace, automotive and new energy transportation, wind power, electronics, and sports and leisure sectors. These downstream industries value the advantages of carbon fiber in terms of specific strength, specific stiffness, and fatigue performance, and are increasingly concerned about the resin system's performance in terms of raw material sourcing, carbon footprint, and recyclability.

The Asia-Pacific region, Europe, and North America constitute the three major demand hubs. Among them, Asia-Pacific countries, such as China, are showing rapid growth in acceptance of low-carbon prepregs driven by policies promoting new energy vehicles, energy storage, and high-end manufacturing.

Since most bio-based epoxy and furan resin systems are designed as "plug-and-play" solutions compatible with existing autoclave or molding processes, end-use composite material companies can switch to lower-carbon prepreg systems without significant adjustments to processes and equipment, significantly lowering the barrier to entry.

With increasingly stringent policy constraints on embodied carbon and downstream OEMs more actively specifying low-carbon materials for new platforms, bio-based resin carbon fiber prepregs are expected to gradually evolve from current demonstration and small-batch projects into a regular option for interior components, secondary load-bearing structures, and high-value-added sports and new energy components.

LP Information, Inc. (LPI)'s newest research report, the "Bio-based Resin Carbon Fiber Prepreg Industry Forecast" looks at past sales and reviews total world Bio-based Resin Carbon Fiber Prepreg sales in 2025, providing a comprehensive analysis by region and market sector of projected Bio-based Resin Carbon Fiber Prepreg sales for 2026 through 2032. With Bio-based Resin Carbon Fiber Prepreg sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-based Resin Carbon Fiber Prepreg industry.

This Insight Report provides a comprehensive analysis of the global Bio-based Resin Carbon Fiber Prepreg landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-based Resin Carbon Fiber Prepreg portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bio-based Resin Carbon Fiber Prepreg market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-based Resin Carbon Fiber Prepreg and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-based Resin Carbon Fiber Prepreg.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-based Resin Carbon Fiber Prepreg market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Unidirectional Type

Fabric Type

Other

Segmentation by Resin System:

Bio-based Epoxy Resin

Bio-based Furan Resin

Bio-based Phenolic Resin

Other

Segmentation by Curing/Molding Process:

Autoclave-Cure

Out-of-Autoclave

Segmentation by Application:

Aerospace and Defense

Sports/Leisure

Wind Energy

Automotive

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Mitsubishi Chemical

Hexcel

Syensqo

Toray

Fiberpreg

FACC

Simcas Composites

Shanghai Hanhe

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bio-based Resin Carbon Fiber Prepreg market?

What factors are driving Bio-based Resin Carbon Fiber Prepreg market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-based Resin Carbon Fiber Prepreg market opportunities vary by end market size?

How does Bio-based Resin Carbon Fiber Prepreg break out by Type, by Application?

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