

Global Aviation Carbon Fiber Prepregs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Aviation Carbon Fiber Prepregs market size was valued at US\$ 3035 million in 2025 and is forecast to a readjusted size of US\$ 5361 million by 2032 with a CAGR of 8.4% during review period.

In 2025, global Aviation Carbon Fiber Prepregs production reached approximately 31.05 k tons, with an average global market price of around USD 95,000 per ton.

The gross profit margin of major companies in the industry is between 24.58%–43.76%.

In 2025, the global production capacity of Aviation Carbon Fiber Prepregs was approximately 40.86 k tons.

Aviation Carbon Fiber Prepregs are composite intermediate materials made by impregnating aerospace-qualified carbon fiber fabrics or tapes with controlled resin systems. They are designed for high strength-to-weight ratio, fatigue resistance, thermal stability, process consistency and strict traceability. The product is used in aircraft structures, rotor blades, fairings, interior structural parts, UAV airframes, space components and high-performance aviation tooling. The market includes unidirectional and woven prepregs for aviation and aerospace applications, but excludes ordinary industrial prepregs, dry carbon fabrics and finished composite parts.

The industry chain includes PAN-based carbon fiber, epoxy resin, tougheners, curing agents, release films, backing papers, solvents, resin films and prepreg coating equipment. Midstream production covers fiber spreading, resin formulation, impregnation, thickness control, volatile control, quality testing, cold storage packaging

and traceability management. Downstream demand comes from aircraft manufacturing, aerospace structures, UAV platforms, maintenance repair, composite tooling and high-performance aviation components. Growth is driven by aircraft lightweighting, fuel efficiency, fleet renewal, advanced air mobility and expanded use of composite structures.

Report Scope

This report is a detailed and comprehensive analysis for global Aviation Carbon Fiber Prepregs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aviation Carbon Fiber Prepregs market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Aviation Carbon Fiber Prepregs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Aviation Carbon Fiber Prepregs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Aviation Carbon Fiber Prepregs market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aviation Carbon Fiber Prepregs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aviation Carbon Fiber Prepregs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toray Industries, Inc., Hexcel Corporation, Syensqo SA, Mitsubishi Chemical Group Corporation, Teijin Limited, Park Aerospace Corp., Axiom Materials, Inc., AVIC Aviation High-Technology Co., Ltd., Weihai Guangwei Composites Co., Ltd., Jiangsu Hengshen Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Aviation Carbon Fiber Prepregs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Epoxy Carbon Fiber Prepregs

BMI Carbon Fiber Prepregs

Cyanate Ester Carbon Fiber Prepregs

Market segment by Reinforcement Form

Unidirectional Prepregs

Woven Fabric Prepregs

Multiaxial Fabric Prepregs

Market segment by Fiber Areal Weight

Lightweight(≤ 150 g/m²)

Medium Weight(151–300 g/m²)

Heavyweight(> 300 g/m²)

Market segment by Application

Aircraft Fuselage Structures

Aircraft Wing Structures

Aircraft Interior and Secondary Structures

Other

Major players covered

Toray Industries, Inc.

Hexcel Corporation

Syensqo SA

Mitsubishi Chemical Group Corporation

Teijin Limited

Park Aerospace Corp.

Axiom Materials, Inc.

AVIC Aviation High-Technology Co., Ltd.

Weihai Guangwei Composites Co., Ltd.

Jiangsu Hengshen Co., Ltd.

Zhongfu Shenying Carbon Fiber Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Aviation Carbon Fiber Prepregs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aviation Carbon Fiber Prepregs, with price, sales quantity, revenue, and global market share of Aviation Carbon Fiber Prepregs from 2021 to 2026.

Chapter 3, the Aviation Carbon Fiber Prepregs competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aviation Carbon Fiber Prepregs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aviation Carbon Fiber Prepregs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aviation Carbon Fiber Prepregs.

Chapter 14 and 15, to describe Aviation Carbon Fiber Prepregs sales channel, distributors, customers, research findings and conclusion.

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