

Global Long Carbon Fiber Reinforced Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Long Carbon Fiber Reinforced Resin market size is expected to reach \$ 821 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Long carbon fiber reinforced resin is a lightweight, high-strength, high-performance composite material using continuous or long carbon fibers as reinforcement and resin (such as epoxy resin) as the matrix. It possesses extremely high specific strength and specific modulus, low coefficient of thermal expansion, fatigue resistance, and corrosion resistance. This material is widely used in aerospace, new energy vehicles, sporting goods, and other fields requiring extremely lightweight structures with high stress.

The upstream mainly consists of carbon fiber precursors (such as PAN-based carbon fiber) and thermoplastic resins (such as PP, PA, PPA, PEEK, etc.). Carbon fibers provide a rigid skeleton, while the resin matrix determines the material's chemical resistance and processing limits. Global sales are projected to reach approximately 10,000 tons in 2025, with an average ex-factory price of approximately \$58/kg. The industry's gross profit margin is around 25%-35%.

From an industry-wide perspective, these materials, by embedding long carbon fibers into a polymer matrix, achieve a lightweight effect unmatched by traditional metal materials such as steel. Their specific strength is approximately ten times higher than that of aluminum and steel, making them particularly suitable for aerospace, automotive manufacturing, and high-end sporting goods. The core factor driving the development of the long carbon fiber reinforced resin industry stems primarily from the urgent global demand for lightweight materials. Continuous advancements in manufacturing processes are reducing production costs and expanding the application boundaries of

these materials, enabling long carbon fiber reinforced resins to gradually penetrate the civilian market from high-end fields such as aerospace.

This report studies the global Long Carbon Fiber Reinforced Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Long Carbon Fiber Reinforced Resin and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Long Carbon Fiber Reinforced Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Long Carbon Fiber Reinforced Resin total production and demand, 2021-2032, (Tons)

Global Long Carbon Fiber Reinforced Resin total production value, 2021-2032, (USD Million)

Global Long Carbon Fiber Reinforced Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Long Carbon Fiber Reinforced Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Long Carbon Fiber Reinforced Resin domestic production, consumption, key domestic manufacturers and share

Global Long Carbon Fiber Reinforced Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Long Carbon Fiber Reinforced Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Long Carbon Fiber Reinforced Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Long Carbon Fiber Reinforced Resin market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teijin, Syensqo, SGL Carbon, Celanese, Avient, Toray, Polyplastics, LEHVOSS Group, Kingfa Sci. & Tech, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Long Carbon Fiber Reinforced Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Long Carbon Fiber Reinforced Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Long Carbon Fiber Reinforced Resin Market, Segmentation by Type:

Thermosetting Type

Thermoplastics Type

Global Long Carbon Fiber Reinforced Resin Market, Segmentation by Carbon Fiber Content:

20%

30%

40%

Other

Global Long Carbon Fiber Reinforced Resin Market, Segmentation by Material Form:

Granules

Prepreg

Other

Global Long Carbon Fiber Reinforced Resin Market, Segmentation by Application:

Automotive

Aerospace

Construction Sector

Sporting Goods

Others

Companies Profiled:

Teijin

Syensqo

SGL Carbon

Celanese

Avient

Toray

Polyplastics

LEHVOSS Group

Kingfa Sci. & Tech

Key Questions Answered:

1. How big is the global Long Carbon Fiber Reinforced Resin market?
2. What is the demand of the global Long Carbon Fiber Reinforced Resin market?
3. What is the year over year growth of the global Long Carbon Fiber Reinforced Resin market?
4. What is the production and production value of the global Long Carbon Fiber Reinforced Resin market?
5. Who are the key producers in the global Long Carbon Fiber Reinforced Resin market?
6. What are the growth factors driving the market demand?

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