

Global Carbon Fiber for Bicycle Frame Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber for Bicycle Frame market size is expected to reach \$ 322 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber for Bicycle Frame sales reached approximately 6,480 tons , with an average global market price of around US\$ 27 per kg. Carbon Fiber for Bicycle Frame refers to high-strength, lightweight carbon fiber materials specifically developed for manufacturing bicycle frames and structural frame components. These materials are generally supplied as continuous filament tow, unidirectional sheets, woven fabrics, braided materials, or epoxy-based prepregs. Manufacturers combine fibers with different tensile strengths, elastic moduli, orientations, resin contents, and thicknesses to control frame stiffness, weight, impact resistance, fatigue life, vibration damping, and riding comfort. Carbon fiber is widely used in road bicycles, mountain bicycles, gravel bicycles, racing bicycles, electric bicycles, and triathlon bicycles because it enables complex aerodynamic shapes and customized structural performance. The industrial chain of Carbon Fiber for Bicycle Frame begins with acrylonitrile, polymer precursors, spinning chemicals, sizing agents, epoxy resins, curing agents, additives, release films, and packaging materials. Upstream production includes precursor spinning, stabilization, carbonization, graphitization, surface treatment, sizing, weaving, fiber spreading, resin formulation, and prepreg manufacturing. Midstream processors perform material cutting, ply preparation, layup, tube rolling, bladder molding, resin-transfer molding, curing, bonding, machining, surface finishing, inspection, and frame assembly. Downstream applications include road bicycles, mountain bicycles, gravel bicycles, electric bicycles, racing bicycles, and customized bicycles. Supporting activities include material testing, structural simulation, quality certification, logistics, recycling, technical services, and process development.

The Carbon Fiber for Bicycle Frame market is supported by increasing demand for lightweight, high-strength, aerodynamic, and customized bicycles. Carbon fiber enables manufacturers to adjust frame stiffness, compliance, impact resistance, weight distribution, and vibration damping through fiber-grade selection and optimized laminate design. Road racing and mountain bicycles remain major applications, while gravel bicycles and lightweight electric bicycles are creating additional material demand. High-strength and intermediate-modulus fibers are widely used, while high-modulus fibers, spread-tow fabrics, thin prepregs, toughened resin systems, and automated layup technologies are gaining adoption in premium frames. Manufacturers are also improving molding consistency, reducing void content, shortening curing cycles, and developing recyclable composite solutions. However, high raw-material costs, labor-intensive layup, energy-intensive carbonization, complex quality control, repair difficulties, and competition from aluminum and titanium frames may restrict expansion. Growing cycling participation, premium bicycle consumption, electric bicycle development, and manufacturing automation are expected to support long-term market growth.

This report studies the global Carbon Fiber for Bicycle Frame production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber for Bicycle Frame total production and demand, 2021-2032, (Tons)

Global Carbon Fiber for Bicycle Frame total production value, 2021-2032, (USD Million)

Global Carbon Fiber for Bicycle Frame production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbon Fiber for Bicycle Frame consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carbon Fiber for Bicycle Frame domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber for Bicycle Frame production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbon Fiber for Bicycle Frame production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

Global Carbon Fiber for Bicycle Frame production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Fiber for Bicycle Frame 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 Toray Industries, Teijin, Mitsubishi Chemical Corporation, Formosa Plastics Corporation, Jiangsu Hengshen, Hexcel Corporation, Zhongfu Shenyang, Weihai Guangwei Composites, Taekwang, HS Hyosung Advanced Materials, 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 Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber for Bicycle Frame Market, Segmentation by Type:

1K

3K

6K

12K

Others

Global Carbon Fiber for Bicycle Frame Market, Segmentation by Modulus:

Standard Modulus

Intermediate Modulus

High Modulus

Global Carbon Fiber for Bicycle Frame Market, Segmentation by Carbon Fiber Precursor:

PAN-based Carbon Fiber

Pitch-based Carbon Fiber

Others

Global Carbon Fiber for Bicycle Frame Market, Segmentation by Application:

Daily & Leisure Bicycle

Professional & Racing Bicycle

Companies Profiled:

Toray Industries

Teijin

Mitsubishi Chemical Corporation

Formosa Plastics Corporation

Jiangsu Hengshen

Hexcel Corporation

Zhongfu Shenying

Weihai Guangwei Composites

Taekwang

HS Hyosung Advanced Materials

Nippon Graphite Fiber Corporation

SGL Carbon

Key Questions Answered:

1. How big is the global Carbon Fiber for Bicycle Frame market?
2. What is the demand of the global Carbon Fiber for Bicycle Frame market?
3. What is the year over year growth of the global Carbon Fiber for Bicycle Frame market?
4. What is the production and production value of the global Carbon Fiber for Bicycle Frame market?

5. Who are the key producers in the global Carbon Fiber for Bicycle Frame market?
6. What are the growth factors driving the market demand?

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