

Global Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame market size was valued at US\$ 191 million in 2025 and is forecast to a readjusted size of US\$ 322 million by 2032 with a CAGR of 7.8% during review period.

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 is a detailed and comprehensive analysis for global Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

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

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

Global Carbon Fiber for Bicycle Frame market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 Carbon Fiber for Bicycle Frame

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 Carbon Fiber for Bicycle Frame 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, 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.

Market Segmentation

Carbon Fiber for Bicycle Frame 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 segment by Type

1K

3K

6K

12K

Others

Market segment by Modulus

Standard Modulus

Intermediate Modulus

High Modulus

Market segment by Carbon Fiber Precursor

PAN-based Carbon Fiber

Pitch-based Carbon Fiber

Others

Market segment by Application

Daily & Leisure Bicycle

Professional & Racing Bicycle

Major players covered

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

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Fiber for Bicycle Frame product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Carbon Fiber for Bicycle Frame competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame.

Chapter 14 and 15, to describe Carbon Fiber for Bicycle Frame sales channel, distributors, customers, research findings and conclusion.

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