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Global Carbon Fiber for Bicycle Frame Market Growth 2026-2032

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Abstracts

The global Carbon Fiber for Bicycle Frame market size is predicted to grow from US$ 182 million in 2025 to US$ 315 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 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.

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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.

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

This Insight Report provides a comprehensive analysis of the global Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle Frame portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Carbon Fiber for Bicycle Frame market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Fiber for Bicycle Frame 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 Carbon Fiber for Bicycle

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Frame.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Fiber for Bicycle Frame market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1K

3K

6K

12K

Others

Segmentation by Modulus:

Standard Modulus

Intermediate Modulus

High Modulus

Segmentation by Carbon Fiber Precursor:

PAN-based Carbon Fiber

Pitch-based Carbon Fiber

Others

Segmentation by Application:

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Daily & Leisure Bicycle

Professional & Racing Bicycle

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

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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.

Toray Industries

Teijin

Mitsubishi Chemical Corporation

Formosa Plastics Corporation

Jiangsu Hengshen

Hexcel Corporation

Zhongfu Shenying

Weihai Guangwei Composites

Taekwang

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HS Hyosung Advanced Materials

Nippon Graphite Fiber Corporation

SGL Carbon

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carbon Fiber for Bicycle Frame market?

What factors are driving Carbon Fiber for Bicycle Frame market growth, globally and by region?

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

How do Carbon Fiber for Bicycle Frame market opportunities vary by end market size?

How does Carbon Fiber for Bicycle Frame break out by Type, by Application?

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