

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Market Growth 2026-2032

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Abstracts

The global Carbon Fiber Reinforced Thermoplastic Polyurethane market size is predicted to grow from US\$ 80.22 million in 2025 to US\$ 110 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Carbon fiber reinforced thermoplastic polyurethane (CFR) is a composite material combining high-strength carbon fiber (CF) with highly elastic, wear-resistant thermoplastic polyurethane (TPU). It achieves a balance of lightweight, high stiffness, and high flexibility, exhibiting excellent impact resistance and fatigue resistance.

The upstream sector consists of high-performance carbon fiber precursors (such as PAN-based large or small tows) and a thermoplastic polyurethane (TPU) resin matrix. The midstream sector is the core of the industry chain, with mainstream technologies including chopped fiber reinforcement (SFT) and long fiber reinforcement (LFT). Long fiber technology, in particular, offers superior mechanical properties due to its ability to maintain the three-dimensional network structure of the fibers within the matrix.

In 2025, global sales volume is projected to reach approximately 2,300 tons, with market prices ranging roughly from \$25 to \$40 per kilogram. The industry's gross profit margin stands at around 30%.

United States market for Carbon Fiber Reinforced Thermoplastic Polyurethane is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Carbon Fiber Reinforced Thermoplastic Polyurethane is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026

through 2032.

Europe market for Carbon Fiber Reinforced Thermoplastic Polyurethane is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Carbon Fiber Reinforced Thermoplastic Polyurethane players cover Avient, Celanese, Envalior, Toray, RTP Company, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Fiber Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane.

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

Segmentation by Type:

Short Carbon Fiber

Long Carbon Fiber

Continuous Carbon Fiber

Segmentation by Morphology:

Particles

Prepreg

Other

Segmentation by Application:

Automotive

Medical

Sports Equipment

Other

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

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.

Avient

Celanese

Envalior

Toray

RTP Company

Carbon (Xiamen) New Material

Xiamen LFT Composite Plastic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carbon Fiber Reinforced Thermoplastic Polyurethane market?

What factors are driving Carbon Fiber Reinforced Thermoplastic Polyurethane market growth, globally and by region?

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

How do Carbon Fiber Reinforced Thermoplastic Polyurethane market opportunities vary by end market size?

How does Carbon Fiber Reinforced Thermoplastic Polyurethane break out by Type, by Application?

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