

Global Carbon Fiber Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane market size was valued at US\$ 84.37 million in 2025 and is forecast to a readjusted size of US\$ 114 million by 2032 with a CAGR of 4.5% during review period.

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%.

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

Global Carbon Fiber Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane

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 Reinforced Thermoplastic Polyurethane 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 Avient,

Celanese, Envalior, Toray, RTP Company, Carbon (Xiamen) New Material, Xiamen LFT Composite Plastic, etc.

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

Market Segmentation

Carbon Fiber Reinforced Thermoplastic Polyurethane 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

Short Carbon Fiber

Long Carbon Fiber

Continuous Carbon Fiber

Market segment by Morphology

Particles

Prepreg

Other

Market segment by Application

Automotive

Medical

Sports Equipment

Other

Major players covered

Avient

Celanese

Envalior

Toray

RTP Company

Carbon (Xiamen) New Material

Xiamen LFT Composite Plastic

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 Reinforced Thermoplastic Polyurethane product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Carbon Fiber Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane 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 Reinforced Thermoplastic Polyurethane.

Chapter 14 and 15, to describe Carbon Fiber Reinforced Thermoplastic Polyurethane sales channel, distributors, customers, research findings and conclusion.

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