

Global Carbon Thermoplastic Composite Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/C90CD17145B7EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: C90CD17145B7EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon Thermoplastic Composite market size will reach 1,619.02 Million USD in 2025 and is projected to reach 3,042.33 Million USD by 2032, with a CAGR of 9.43% (2025-2032). Notably, the China Carbon Thermoplastic Composite market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Carbon thermoplastic composite refers to a type of composite material that combines carbon fibers with a thermoplastic polymer matrix. The carbon fibers, known for their high strength and stiffness, are embedded within the thermoplastic polymer matrix, which can be melted and re-molded multiple times when heated. This unique combination of carbon fibers and thermoplastic matrix results in a composite material with exceptional mechanical properties, including high strength-to-weight ratio, impact resistance, and dimensional stability. Carbon thermoplastic composites offer advantages such as ease of processing, rapid manufacturing cycles, and the ability to recycle and reprocess the material. These composites find applications in various industries, such as aerospace, automotive, and sporting goods, where lightweight, high-performance materials are desired. They are used for components such as aircraft parts, automotive structures, sporting equipment, and industrial machinery, where strength, durability, and versatility are critical factors. The continued development and utilization of carbon thermoplastic composites contribute to advancements in lightweight and sustainable materials for diverse engineering applications.

The major global manufacturers of Carbon Thermoplastic Composite include Toray Industries, Teijin Limited, Mitsubishi Chemical Corporation, Solvay, Avient, Saertex, Covestro, Plasan Carbon Composites, Hengshen Carbon Fibre, Weihai Guangwei Composite Material, Zhongfu Shenying Carbon, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbon Thermoplastic Composite. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbon Thermoplastic Composite market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbon Thermoplastic Composite market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbon Thermoplastic Composite industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbon Thermoplastic Composite Include:

Toray Industries

Teijin Limited

Mitsubishi Chemical Corporation

Solvay

Avient

Saertex

Covestro

Plasan Carbon Composites

Hengshen Carbon Fibre

Weihai Guangwei Composite Material

Zhongfu Shenying Carbon

Carbon Thermoplastic Composite Product Segment Include:

Carbon Fiber Reinforced Polypropylene (CFR-PP)

Carbon Fiber Reinforced Polyethylene (CFR-PE)

Carbon Fiber Reinforced Polyamide (CFR-PA)

Carbon Fiber Reinforced Polyether Ether Ketone (CFR-PEEK)

Carbon Fiber Reinforced Polyphenylene Sulfide (CFR-PPS)

Carbon Fiber Reinforced Polyetherimide (CFR-PEI)

Carbon Fiber Reinforced Polyvinylidene Fluoride (CFR-PVDF)

Carbon Fiber Reinforced Polycarbonate (CFR-PC)

Carbon Fiber Reinforced Polyimide (CFR-PI)

Carbon Thermoplastic Composite Product Application Include:

Automotive

Electric and Electronics

Aerospace and Defense

Construction

Sports Leisure

Energy

Others

Chapter Scope

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