

Global PEEK Carbon Fibre Reinforced Compound Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PEEK Carbon Fibre Reinforced Compound market size is expected to reach \$ 504 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global PEEK Carbon Fibre Reinforced Compound production reached approximately 7,700 tons with an average global market price of around US\$ 41,000 per ton, and a gross profit margin of approximately 20%-40%. PEEK carbon fibre reinforced compound is a high-performance thermoplastic composite material in which a polyetheretherketone (PEEK) matrix is filled with a defined proportion of chopped or continuous carbon fibres to significantly enhance stiffness, strength and dimensional stability while retaining PEEK's intrinsic heat and chemical resistance. In this compound, the PEEK resin provides a continuous, semi-crystalline matrix with excellent thermal stability (continuous use temperatures typically up to 240-260 °C), inherent flame retardancy, and outstanding resistance to fuels, oils, solvents and many aggressive chemicals, while the embedded carbon fibres create a load-bearing skeleton that greatly increases modulus, tensile and flexural strength and reduces creep and deformation under long-term load. Depending on fibre content and length, carbon-fibre-reinforced PEEK can achieve metal-like stiffness at a fraction of the weight, with very low thermal expansion and good fatigue behaviour, making it suitable for precision parts that must maintain tight tolerances across wide temperature ranges. The material is usually supplied as pellets for injection moulding or extrusion, and can also be processed into plates, rods, profiles or 3D-printing grades; fibre orientation during processing leads to anisotropic properties that designers can exploit for optimized stiffness and strength in specific directions. In addition, carbon fibres can impart tailored electrical properties from antistatic to fully conductive allowing CF-PEEK to be used in applications requiring EMI shielding or ESD protection.

Upstream, a small number of global PEEK manufacturers supply base resin in pellet or

powder form, while carbon fibre producers provide chopped or continuous fibres with controlled length, sizing and surface treatment to ensure good adhesion to the PEEK matrix; additives such as PTFE, graphite, stabilizers, pigments and processing aids, plus high-temperature tooling steels and compounding equipment (twin-screw extruders, strand pelletizers) round out the input side. In the midstream segment, compounders and integrated polymer producers formulate and manufacture CF-PEEK grades by dosing the right fibre content, melting and dispersing fibres in PEEK, pelletizing and performing quality control on fibre distribution, mechanical properties, electrical resistivity and melt rheology; some also convert pellets into semi-finished products such as plates, rods, tubes or 3D-printing filaments, and provide application engineering support to OEMs and molders. Downstream, injection molders, extruders, compression molders and machining specialists transform CF-PEEK compounds and semi-finished shapes into finished parts for aerospace brackets, structural inserts, pump and valve components, compressor parts, high-temperature electrical connectors, ESD-safe housings, semiconductor and wafer-handling components, medical device structures (non-implant) and high-end automotive or motorsport parts.

This report studies the global PEEK Carbon Fibre Reinforced Compound production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PEEK Carbon Fibre Reinforced Compound and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PEEK Carbon Fibre Reinforced Compound that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PEEK Carbon Fibre Reinforced Compound total production and demand, 2021-2032, (Tons)

Global PEEK Carbon Fibre Reinforced Compound total production value, 2021-2032, (USD Million)

Global PEEK Carbon Fibre Reinforced Compound production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global PEEK Carbon Fibre Reinforced Compound consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: PEEK Carbon Fibre Reinforced Compound domestic production, consumption, key domestic manufacturers and share

Global PEEK Carbon Fibre Reinforced Compound production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global PEEK Carbon Fibre Reinforced Compound production by Type, production,

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Global PEEK Carbon Fibre Reinforced Compound production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global PEEK Carbon Fibre Reinforced Compound market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Victrex, Syensqo, Evonik, ZYPEEK, Ensinger Group, PFLUON, MCAM, JUSEP, PEEKChina, Toray, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PEEK Carbon Fibre Reinforced Compound market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PEEK Carbon Fibre Reinforced Compound Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PEEK Carbon Fibre Reinforced Compound Market, Segmentation by Type:

Short Carbon Fiber (SCF),

Long Carbon Fiber (LCF)

Continuous Carbon Fiber (CCF)

Global PEEK Carbon Fibre Reinforced Compound Market, Segmentation by Carbon Fibre Content:

with 10% Carbon Fiber

with 30% Carbon Fiber

Others

Global PEEK Carbon Fibre Reinforced Compound Market, Segmentation by Processing Method:

Injection Moulded

Extrusion Moulded

Others

Global PEEK Carbon Fibre Reinforced Compound Market, Segmentation by Application:

Aerospace

Low-Altitude Economy

Semiconductors

Medical

Automotive

Marine

Other

Companies Profiled:

Victrex

Syensqo

Evonik

ZYPEEK

Ensinger Group

PFLUON

MCAM

JUSEP

PEEKChina

Toray

Roboze

Icotec

TEIJIN

Haufler Composites

Xiamen Keyuan Plastic

Suzhou JUTAI

Nanjing Shousu

Xiamen LFT Composite Plastic

Shanghai Wanhoo Carbon Fiber Industry

Key Questions Answered:

1. How big is the global PEEK Carbon Fibre Reinforced Compound market?
2. What is the demand of the global PEEK Carbon Fibre Reinforced Compound market?
3. What is the year over year growth of the global PEEK Carbon Fibre Reinforced Compound market?
4. What is the production and production value of the global PEEK Carbon Fibre Reinforced Compound market?
5. Who are the key producers in the global PEEK Carbon Fibre Reinforced Compound market?
6. What are the growth factors driving the market demand?

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