

Global Long Carbon Fiber Reinforced TPU Market Growth 2026-2032

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Abstracts

The global Long Carbon Fiber Reinforced TPU market size is predicted to grow from US\$ 35.22 million in 2025 to US\$ 47.31 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

Long carbon fiber reinforced thermoplastic polyurethane (LCF-TPU) is a high-performance, lightweight composite material. It is made from long carbon fibers (typically >10mm in length) as reinforcement and thermoplastic polyurethane (TPU) as the matrix, produced through melt impregnation or blending processes. It combines the high strength and rigidity of carbon fibers with the wear resistance, high elasticity, and oil resistance of TPU.

The upstream components mainly consist of high-performance carbon fiber precursors and TPU resin matrix. For the carbon fiber reinforcement, the wettability of the sizing agent determines the bonding strength with the resin; for the TPU matrix, its molecular weight distribution and hardness directly affect the processing flowability of the composite material.

Global sales in 2025 are estimated at approximately 500 tons, with an average ex-factory price of approximately US\$72/kg. The industry gross profit margin is around 28%.

The industry's driving factors primarily stem from the global trend of low-carbon emission reduction and the technological wave of 'replacing steel with plastics.' In the field of new energy vehicles, to improve the energy density of battery packs, OEMs urgently need lightweight structural components with excellent vibration damping performance. LFT-TPU precisely meets the dual requirements of weight reduction and

NVH (noise, vibration, and harshness) optimization. At the same time, the pressure of circular economy policies has also prompted companies to shift from non-recyclable thermoset composite materials to thermoplastic composite materials (CFRTP) that can be heated and remolded.

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

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

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

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

Segmentation by Type:

LCF 20%

LCF 30%

LCF 40%

Others

Segmentation by Morphology:

Particles

Prepreg

Other

Segmentation by TPU Matrix:

Polyester Type

Polyether Type

Segmentation by Application:

Automotive Industry

Sporting Goods

Medical Devices

Others

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

Carbon (Xiamen) New Material

Xiamen LFT Composite Plastic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Long Carbon Fiber Reinforced TPU market?

What factors are driving Long Carbon Fiber Reinforced TPU market growth, globally and by region?

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

How do Long Carbon Fiber Reinforced TPU market opportunities vary by end market size?

How does Long Carbon Fiber Reinforced TPU break out by Type, by Application?

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