

# Global Long Carbon Fiber Reinforced TPU Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Long Carbon Fiber Reinforced TPU market size is expected to reach \$ 49.04 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Long Carbon Fiber Reinforced TPU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Long Carbon Fiber Reinforced TPU 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 Long Carbon Fiber Reinforced TPU that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Long Carbon Fiber Reinforced TPU total production and demand, 2021-2032, (Tons)

Global Long Carbon Fiber Reinforced TPU total production value, 2021-2032, (USD Million)

Global Long Carbon Fiber Reinforced TPU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Long Carbon Fiber Reinforced TPU consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Long Carbon Fiber Reinforced TPU domestic production, consumption, key domestic manufacturers and share

Global Long Carbon Fiber Reinforced TPU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Long Carbon Fiber Reinforced TPU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Long Carbon Fiber Reinforced TPU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Long Carbon Fiber Reinforced TPU 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 Avient, Celanese, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Long Carbon Fiber Reinforced TPU market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Long Carbon Fiber Reinforced TPU Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Long Carbon Fiber Reinforced TPU Market, Segmentation by Type:**

LCF 20%

LCF 30%

LCF 40%

Others

Global Long Carbon Fiber Reinforced TPU Market, Segmentation by Morphology:

Particles

Prepreg

Other

Global Long Carbon Fiber Reinforced TPU Market, Segmentation by TPU Matrix:

Polyester Type

Polyether Type

Global Long Carbon Fiber Reinforced TPU Market, Segmentation by Application:

Automotive Industry

Sporting Goods

Medical Devices

Others

Companies Profiled:

Avient

Celanese

Carbon (Xiamen) New Material

Xiamen LFT Composite Plastic

**Key Questions Answered:**

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

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