

Global eVTOL Composite Materials Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6294FE147E3EN.html>

Date: December 2025

Pages: 169

Price: US\$ 4,480.00 (Single User License)

ID: G6294FE147E3EN

Abstracts

The global eVTOL Composite Materials market size is expected to reach \$ 4329 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

In 2025, global eVTOL Composite Materials production reached approximately 947.6 kilotons with an average global market price of around US\$1,700 per ton. Single-line annual production capacity averages 18 kiloton with a gross margin of approximately 25%. The upstream of the eVTOL Composite Materials supply chain primarily includes reinforcing materials such as carbon fiber, glass fiber, and aramid fiber, as well as high-performance resins like epoxy and PEEK, concentrated in the chemical and materials science industries. In downstream applications, the primary structure and propulsion systems account for approximately 40%, the internal structure for about 30%, the battery systems for around 15%, functional components for about 10%, and other applications for roughly 5%. With the rapid development of the eVTOL aircraft market, the demand for composite materials is on the rise, and business opportunities are primarily focused on technological innovations and market expansion aimed at improving energy efficiency, reducing weight, and enhancing overall performance. eVTOL composite materials are engineered to deliver high specific stiffness and strength, which is fundamental for managing the unique aeroelastic and dynamic load environment of distributed electric propulsion aircraft. The design focus lies in tailoring laminate architectures using carbon fiber reinforced polymers (CFRP) as the primary constituent to achieve anisotropic properties that precisely align load paths within thin-walled, integrated structures like wings, fuselages, and rotor blades. This involves optimizing ply sequences and fiber orientations to resist bending, torsion, and vibratory loads from multiple rotors while minimizing mass to directly enhance power-to-weight ratio and energy efficiency. Beyond lightweighting, the material system is selected and processed for multifunctionality: it provides inherent damping to reduce acoustic

signature and fatigue stresses, enables complex aerodynamic shapes through net-shape molding, and incorporates embedded conductors for lightning strike protection or de-icing. Crucially, the durability under repeated charge-discharge cycles of the propulsion system and environmental exposure (UV, moisture, thermal cycles) is engineered in via resin chemistry and fiber-matrix interface control to ensure long-term structural integrity without corrosion or significant degradation. The outcome is a load-bearing airframe that is both a primary structure and an enabling technology for the aircraft's flight physics, directly influencing its performance envelope, noise profile, and operational lifecycle costs.

This report studies the global eVTOL Composite Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for eVTOL Composite Materials 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 eVTOL Composite Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global eVTOL Composite Materials total production and demand, 2021-2032, (Kilotons)

Global eVTOL Composite Materials total production value, 2021-2032, (USD Million)

Global eVTOL Composite Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global eVTOL Composite Materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: eVTOL Composite Materials domestic production, consumption, key domestic manufacturers and share

Global eVTOL Composite Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global eVTOL Composite Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global eVTOL Composite Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global eVTOL Composite Materials 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 Toray, DuPont, Hexcel, Victrex, Covestro, DIAB Group, H.B. Fuller, SGL Carbon, Solvay, Celanese, 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 eVTOL Composite Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 eVTOL Composite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global eVTOL Composite Materials Market, Segmentation by Type:

CFRP

GFRP

AFRP

PEEK

Others

Global eVTOL Composite Materials Market, Segmentation by Form:

Adhesive

Core

Global eVTOL Composite Materials Market, Segmentation by Application:

Main Structure & Propulsion System

Internal Structure

Battery System

Functional Components

Others

Companies Profiled:

Toray

DuPont

Hexcel

Victrex

Covestro

DIAB Group

H.B. Fuller

SGL Carbon

Solvay

Celanese

Weihai Guangwei Composites

Jilin Chemical Fiber Group

Zhongfu Shenying Carbon Fiber

Wells Advanced Materials (Shanghai)

Swancor Advanced Materials

Avic Aviation High-Technology

HRC Group

ATCC

Suzhou Jutai HPM

Jiangsu Zhongfu Shenying

Jiangsu Hengshen

Key Questions Answered:

1. How big is the global eVTOL Composite Materials market?
2. What is the demand of the global eVTOL Composite Materials market?
3. What is the year over year growth of the global eVTOL Composite Materials market?
4. What is the production and production value of the global eVTOL Composite Materials market?
5. Who are the key producers in the global eVTOL Composite Materials market?
6. What are the growth factors driving the market demand?

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