

# Global eVTOL Composite and Adhesive Market Growth 2026-2032

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## Abstracts

The global eVTOL Composite and Adhesive market size is predicted to grow from US\$ 2035 million in 2025 to US\$ 5573 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

In 2025, global eVTOL Composite and Adhesive production reached approximately 1,260.6 kilotons with an average global market price of around US\$1,650 per ton. Single-line annual production capacity averages 20 kiloton with a gross margin of approximately 20-25%. The upstream of eVTOL Composite and Adhesive primarily consists of raw materials such as carbon fiber, glass fiber, and advanced polymers, sourced from the aerospace and advanced materials industries. Downstream applications are segmented into the primary structure and propulsion systems (constituting 40% of the usage), internal structure (30%), battery systems (15%), functional components (10%), and other applications (5%). With the rising demand for enhancing the efficiency and performance of electric vertical take-off and landing (eVTOL) aircraft, the need for these materials and the associated business opportunities are also expanding significantly.

In eVTOL airframe engineering, composites are not merely lightweight substitutes for metals but are foundational to achieving the requisite stiffness-to-weight and strength-to-weight ratios for multi-rotor, high-cyclic-load structures. The primary objective is to enable distributed electric propulsion by minimizing parasitic mass, thereby directly extending range and payload capacity within stringent volumetric constraints. Adhesives, particularly structural film and paste variants, are integral to this architecture, serving as the primary load-transfer mechanism in co-cured and secondary-bonded assemblies. They enable the creation of continuous, aerodynamically smooth monolithic structures—such as one-piece wing shells or fuselage sections—that eliminate stress

concentrations from mechanical fasteners, mitigate corrosion pathways, and dampen vibration. The material system, encompassing carbon fiber prepregs, cores, and toughened epoxy or acrylic adhesives, is engineered for co-processing compatibility. This ensures simultaneous cure cycles that optimize interfacial bonds, reduce manufacturing steps, and yield a unified structure with predictable failure modes under complex multidirectional loads, including crash energy management. The functional outcome is a durable, damage-tolerant vehicle that maintains structural integrity amidst operational stresses from repeated lift/thrust transitions, gust loads, and thermal cycling, all while achieving the mass-specific efficiency impossible with metallics.

United States market for eVTOL Composite and Adhesive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for eVTOL Composite and Adhesive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for eVTOL Composite and Adhesive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key eVTOL Composite and Adhesive players cover Toray, Syensqo, Henkel, 3M, H.B. Fuller, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for eVTOL Composite and Adhesive 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 eVTOL Composite and Adhesive.

This report presents a comprehensive overview, market shares, and growth opportunities of eVTOL Composite and Adhesive market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

Composite Material

Adhesive

**Segmentation by Flame Retardant Rating:**

V-0 Rating

V-1 Rating

V-2 Rating

Others

**Segmentation by Application:**

Main Structure & Propulsion System

Internal Structure

Battery System

Functional Components

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.

Toray

Syensqo

Henkel

3M

H.B. Fuller

SGL Carbon

Hexcel

Solvay

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

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global eVTOL Composite and Adhesive market?

What factors are driving eVTOL Composite and Adhesive market growth, globally and by region?

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

How do eVTOL Composite and Adhesive market opportunities vary by end market size?

How does eVTOL Composite and Adhesive break out by Type, by Application?

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