

Global eVTOL Composite and Adhesive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global eVTOL Composite and Adhesive market size was valued at US\$ 2140 million in 2025 and is forecast to a readjusted size of US\$ 5589 million by 2032 with a CAGR of 14.6% during review period.

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.

This report is a detailed and comprehensive analysis for global eVTOL Composite and Adhesive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global eVTOL Composite and Adhesive market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global eVTOL Composite and Adhesive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global eVTOL Composite and Adhesive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global eVTOL Composite and Adhesive market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

Global eVTOL Composite and Adhesive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for eVTOL Composite and Adhesive

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global eVTOL Composite and Adhesive market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toray, Syensqo, Henkel, 3M, H.B. Fuller, SGL Carbon, Hexcel, Solvay, Weihai Guangwei Composites, Jilin Chemical Fiber Group, etc.

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

Market Segmentation

eVTOL Composite and Adhesive market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Composite Material

Adhesive

Market segment by Flame Retardant Rating

V-0 Rating

V-1 Rating

V-2 Rating

Others

Market segment by Application

Main Structure & Propulsion System

Internal Structure

Battery System

Functional Components

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe eVTOL Composite and Adhesive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of eVTOL Composite and Adhesive, with price, sales quantity, revenue, and global market share of eVTOL Composite and Adhesive from 2021 to 2026.

Chapter 3, the eVTOL Composite and Adhesive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the eVTOL Composite and Adhesive breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and eVTOL Composite and Adhesive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of eVTOL Composite and Adhesive.

Chapter 14 and 15, to describe eVTOL Composite and Adhesive sales channel, distributors, customers, research findings and conclusion.

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