

# Global Composite Material Battery Pack Enclosures Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Composite Material Battery Pack Enclosures market size is expected to reach \$ 1220 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

In 2025, global Composite Material Battery Pack Enclosures production reached approximately 2199 K Units, with an average global market price of around 171 USD per Unit.

Composite Material Battery Pack Enclosures are high-performance, lightweight structural components, typically formed by molding reinforcing fibers (carbon fiber, glass fiber, etc.) and a resin matrix (epoxy, polyester, PA, etc.) through processes such as compression molding and injection molding. Their core function is to provide an integrated solution for battery systems, offering mechanical protection, electrical insulation, thermal management, corrosion resistance, and structural integration while achieving extreme lightweighting.

Composite Material Battery Pack Enclosures, with their unique characteristics of high specific strength, extreme lightweight, natural insulation, flame retardancy and heat insulation, corrosion resistance and aging resistance, and highly integrated and designable features, precisely address the core pain points of the current new energy vehicle industry: with a lightweight effect far superior to metal, it effectively solves range anxiety and energy density bottlenecks, while with stronger impact resistance, compression resistance and heat insulation and flame retardancy, it builds a key safety barrier for battery thermal runaway protection. Its insulation and corrosion resistance properties thoroughly solve the industry problems of metal shells being prone to short circuits, corrosion, and frequent maintenance. And through one-piece molding, it is

perfectly adapted to next-generation integration technologies such as CTP/CTC, greatly simplifying assembly and improving space utilization and production efficiency. Driven by the rapid expansion of the global new energy vehicle industry, continuous policy support for lightweighting and safety upgrades, and automakers' competitive pursuit of range breakthroughs and cost optimization, Composite Material Battery Pack Enclosures are gradually penetrating from high-end models to all product categories. With its comprehensive advantages in performance, safety, efficiency, and life-cycle value, it has become the mainstream direction for battery pack structure upgrades. In the future, as material costs decrease and processes mature, its market application space will be fully opened up, not only deeply empowering the innovation of the new energy vehicle industry, but also expected to extend to fields such as energy storage and special equipment, growing into a key structural track supporting the high-quality development of the new energy ecosystem, with broad and certain growth potential.

The upstream components of Composite Material Battery Pack Enclosures fall into three main categories: resin matrix, reinforcing fibers, and functional additives. Typical suppliers include Huntsman, Dow, BASF, Evonik, Solvay, and Teijin. Downstream users are primarily battery manufacturers and battery pack manufacturers, with typical users including CATL and BYD.

The single-line production capacity of Composite Material Battery Pack Enclosures varies significantly depending on the molding process, product size and structural complexity, and the level of equipment automation. The industry's gross profit margin is typically in the range of 20%-30%.

This report studies the global Composite Material Battery Pack Enclosures production, demand, key manufacturers, and key regions.

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

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

Global Composite Material Battery Pack Enclosures total production and demand, 2021-2032, (K Units)

Global Composite Material Battery Pack Enclosures total production value, 2021-2032,

(USD Million)

Global Composite Material Battery Pack Enclosures production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Composite Material Battery Pack Enclosures consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Composite Material Battery Pack Enclosures domestic production, consumption, key domestic manufacturers and share

Global Composite Material Battery Pack Enclosures production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Composite Material Battery Pack Enclosures production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Composite Material Battery Pack Enclosures production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Composite Material Battery Pack Enclosures 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 SGL Carbon, Valeo, Kautex Textron, LION Smart GmbH, Shandong Shuangyi Technology, GRAD Group, Jiangsu Huaman Composite Material, Zhejiang Zhenshi New Material, AdvancedComposite(Suzhou)Technology, ZheJiang Sansen Mold Plastic Technology, 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 Composite Material Battery Pack Enclosures market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Composite Material Battery Pack Enclosures Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Composite Material Battery Pack Enclosures Market, Segmentation by Type:

Thermoplastic Type

Thermosetting Type

Global Composite Material Battery Pack Enclosures Market, Segmentation by Processing:

SMC

BMC

Other

Global Composite Material Battery Pack Enclosures Market, Segmentation by Reinforcing Materials:

Glass Fiber

Carbon Fiber

Other

Global Composite Material Battery Pack Enclosures Market, Segmentation by Application:

Covers

Trays

Companies Profiled:

SGL Carbon

Valeo

Kautex Textron

LION Smart GmbH

Shandong Shuangyi Technology

GRAD Group

Jiangsu Huaman Composite Material

Zhejiang Zhenshi New Material

AdvancedComposite(Suzhou)Technology

ZheJiang Sanse Mold Plastic Technology

Shanhu Auto Decoration

San He Ji Chuang

## Qinyang Yaxin Composite Materials

### **Key Questions Answered:**

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

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