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Global Composite Material for EV Battery Box 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 Composite Material for EV Battery Box market size was valued at US$ 335 million in 2025 and is forecast to a readjusted size of US$ 593 million by 2032 with a CAGR of 8.6% during review period.

In 2025, global Composite Material for EV Battery Box production reached approximately 54.8K Tons, with an average global market price of around 5936 USD per Ton.

Composite Material for EV Battery Box refers to a high-performance structural material specifically designed for the top cover, lower box, or protective structure of power battery packs in new energy vehicles. It is made of resin as the matrix and glass fiber/carbon fiber as the reinforcing material. It has the characteristics of lightweight, high strength, high modulus, flame retardancy, heat insulation, insulation and corrosion resistance, and easy molding of large-size parts. It can replace the traditional metal shell to achieve weight reduction and energy saving, while meeting the automotive-grade safety requirements such as battery pack sealing and protection, shock resistance, and suppression of thermal runaway propagation. It is a key material for achieving lightweight and safety upgrades of power battery systems.

The upstream raw materials for Composite Material for EV Battery Box mainly fall into three categories: resin matrix, reinforcing fiber, and functional additives. Typical suppliers include Huntsman, Dow, BASF, Evonik, Solvay, Teijin, etc. Downstream users are mainly battery manufacturers and battery pack manufacturers, with typical users including CATL, BYD, etc.

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The production capacity of a single production line for Composite Material for EV Battery Box varies greatly depending on the molding process, product size and structural complexity, and the level of equipment automation. The industry gross profit margin is usually in the range of 20%-30%.

This report is a detailed and comprehensive analysis for global Composite Material for EV Battery Box 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 Composite Material for EV Battery Box market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Composite Material for EV Battery Box market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Composite Material for EV Battery Box 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 Composite Material for EV Battery Box 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:

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

To assess the growth potential for Composite Material for EV Battery Box

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

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To assess competitive factors affecting the marketplace

This report profiles key players in the global Composite Material for EV Battery Box 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 BASF, LANXESS, SGL Carbon, Mitsubishi Chemical Group (MCG), IDI Composites International, Continental Structural Plastics (TEIJIN), Covestro AG, SABIC, LyondellBasell, Trinseo, etc.

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

Market Segmentation

Composite Material for EV Battery Box 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

Thermoplastic Type

Thermosetting Type

Market segment by Processing

SMC

BMC

Other

Market segment by Reinforcing Materials

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Glass Fiber

Carbon Fiber

Other

Market segment by Application

Trays

Covers

Major players covered

BASF

LANXESS

SGL Carbon

Mitsubishi Chemical Group (MCG)

IDI Composites International

Continental Structural Plastics (TEIJIN)

Covestro AG

SABIC

LyondellBasell

Trinseo

Evonik Industries

Hanwha

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Jiangsu Huaman Composite Material

Huayuan Advanced Materials

Techstorm

Zhejiang Zhenshi New Material

AdvancedComposite(Suzhou)Technology

ZheJiang Sanse Mold Plastic Technology

Disnflex

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 Composite Material for EV Battery Box product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Composite Material for EV Battery Box, with price, sales quantity, revenue, and global market share of Composite Material for EV Battery Box from 2021 to 2026.

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Chapter 3, the Composite Material for EV Battery Box competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Composite Material for EV Battery Box 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 Composite Material for EV Battery Box 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 Composite Material for EV Battery Box.

Chapter 14 and 15, to describe Composite Material for EV Battery Box sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: COMPOSITE MATERIAL FOR EV BATTERY BOX BY MANUFACTURER

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