

Global Flame-Retardant EV Battery Case Material 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 Flame-Retardant EV Battery Case Material market size was valued at US\$ 48.31 million in 2025 and is forecast to a readjusted size of US\$ 92.97 million by 2032 with a CAGR of 10.5% during review period.

Flame-Retardant EV Battery Case Material refers to non-metal material systems used in electric vehicle designed to delay ignition and slow flame development under extreme thermal conditions. A key advantage of these materials is their ability to extend the time to ignition and reduce the rate of flame propagation during thermal runaway or external fire exposure. By slowing the onset and spread of combustion, flame-retardant battery case materials provide additional response time for thermal management systems, safety interventions, and occupant evacuation. In 2025, production reached 3,207 tons with an average price of 14,640 USD/ton. The capacity utilization rate in the flame-retardant EV battery case material industry remained at 55%, and the average gross profit margin was approximately 20.3%. The upstream of flame-retardant EV battery case materials is centered on resin systems, fillers, and reinforcing fibers. The core matrix materials include thermosetting resins such as unsaturated polyester resins and vinyl ester resins, supplied by AOC, INEOS Composites, Ashland, and Eternal Materials, which provide crosslinking performance and thermal stability during compression molding. Fillers including calcium carbonate, aluminum trihydrate, glass microspheres, and clay are critical for cost control and flame-retardant efficiency, with key suppliers such as Huber Engineered Materials, Chalco, Nabaltec AG, and Hindalco Industries. Reinforcing fibers, mainly glass fiber and carbon fiber, determine mechanical strength and rigidity, with major suppliers including China Jushi, Owens Corning, Taishan Fiberglass, CPIC, and Johns Manville. The midstream focuses on formulation

design, compounding, and molding processes that convert raw materials into flame-retardant battery case components. Key activities include resin–filler ratio optimization, fiber dispersion control, flame-retardant system balancing, and rheological tuning to ensure stable compression molding or thermoplastic forming. Manufacturers in this stage integrate mechanical strength, thermal resistance, flame retardancy, and dimensional stability into a single material system, while also meeting automotive requirements for lightweighting, consistency, and mass-production efficiency. Downstream applications of flame-retardant EV battery case materials are primarily concentrated in battery enclosure and battery cover. These materials are adopted by leading automotive OEMs including Volkswagen Group, General Motors, Hyundai Motor Group, and Toyota, where high flame resistance, structural integrity, and crash safety are mandatory.

The continuous growth of global EV production is a fundamental driver for flame-retardant EV battery case materials. As EV output increases year by year, the total number of battery packs installed in vehicles rises accordingly, which directly enlarges the addressable base for battery safety–related materials. Even if the penetration rate of flame-retardant battery case materials remains relatively low, higher vehicle volumes translate into growing absolute demand. In addition, higher production volumes increase the exposure of OEMs to large-scale quality and safety risks. A single safety incident can affect a much larger vehicle population, amplifying potential recall costs and reputational damage. This scale effect encourages manufacturers to reassess safety margins at the material level, including the role of flame-retardant materials in battery cases. Regulatory attention to EV battery safety is intensifying, providing a strong policy-driven driver for flame-retardant battery case materials. Governments and regulatory bodies are updating safety standards to address fire exposure, thermal runaway behavior, and post-incident containment. While regulations may not mandate specific materials, they raise performance expectations for battery systems as a whole. This indirectly increases scrutiny on battery case materials and encourages OEMs to adopt solutions that improve compliance margins. As regulatory requirements evolve, material choices are increasingly influenced by their ability to support certification and reduce approval risk. For manufacturers, selecting materials with proven flame-retardant behavior can simplify regulatory discussions and reduce uncertainty during homologation. Over time, tighter safety frameworks reinforce demand for materials that contribute to meeting or exceeding regulatory expectations at the system level.

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

Global Flame-Retardant EV Battery Case Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Flame-Retardant EV Battery Case Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Flame-Retardant EV Battery Case Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Flame-Retardant EV Battery Case Material
- 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 Flame-Retardant EV Battery Case Material 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 Mitsubishi Chemical Group, Teijin, Polytec, SABIC, BASF, Mitsui Chemicals, IDI Composites, Polynt-Reichhold Group, Lanxess, etc.

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

Market Segmentation

Flame-Retardant EV Battery Case Material 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

Sheet Molding Compound

Thermoplastics

Others

Market segment by Application

Enclosure

Cover

Others

Major players covered

Mitsubishi Chemical Group

Teijin

Polytec

SABIC

BASF

Mitsui Chemicals

IDI Composites

Polynt-Reichhold Group

Lanxess

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 Flame-Retardant EV Battery Case Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flame-Retardant EV Battery Case Material, with price, sales quantity, revenue, and global market share of Flame-Retardant EV Battery Case Material from 2021 to 2026.

Chapter 3, the Flame-Retardant EV Battery Case Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flame-Retardant EV Battery Case Material 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 Flame-Retardant EV Battery Case Material 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 Flame-Retardant EV Battery Case Material.

Chapter 14 and 15, to describe Flame-Retardant EV Battery Case Material sales channel, distributors, customers, research findings and conclusion.

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