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Global Battery Pack Thermal Runaway Barrier Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GD0932165C1FEN.html
Date: August 2026
Pages: 125
Price: US$ 3,480.00 (Single User License)
ID: GD0932165C1FEN

Abstracts

According to our (Global Info Research) latest study, the global Battery Pack Thermal Runaway Barrier market size was valued at US$ 1948 million in 2025 and is forecast to a readjusted size of US$ 3998 million by 2032 with a CAGR of 10.4% during review period.

Battery Pack Thermal Runaway Barrier refers to a passive heat- and flame-resistant material or component installed between battery cells, modules, or pack structures to delay or prevent thermal runaway propagation. The market mainly includes aerogel barriers, mica barriers, ceramic-fiber barriers, silicone-based barriers, fire-resistant films, tapes, sheets, pads, and composite shields. Battery separators, active cooling systems, fire-extinguishing systems, ordinary thermal interface materials, and complete battery packs are excluded.

The 2025 benchmark ASP is US$20 per m?, global sales volume is approximately 94.680 million m?, and the estimated average gross margin is approximately 35%. The upstream industry chain includes aerogel, mica paper, ceramic fibers, silicone, engineering polymers, nonwoven substrates, films, adhesives, coatings, and reinforcing fibers. The midstream includes material formulation, lamination, coating, encapsulation, die cutting, molding, testing, and customized component manufacturing. The downstream mainly covers electric vehicles, energy storage systems, consumer electronics, industrial batteries, and aerospace applications.

Demand for battery pack thermal runaway barriers is driven by increasing battery energy density, tighter pack integration, larger battery systems, and stricter requirements for delaying cell-to-cell and module-to-module thermal propagation. Thin

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passive barriers can provide thermal insulation, flame resistance, electrical insulation, and mechanical cushioning without relying on an active control system.

Future development will focus on thinner and lighter structures, lower thermal conductivity, higher flame and particle resistance, improved compression performance, multifunctional thermal and electrical insulation, cleaner converting processes, and customized barriers for cell-to-pack and cell-to-body battery architectures.

Report Scope

This report is a detailed and comprehensive analysis for global Battery Pack Thermal Runaway Barrier 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 Battery Pack Thermal Runaway Barrier market size and forecasts, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Battery Pack Thermal Runaway Barrier market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Battery Pack Thermal Runaway Barrier market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Battery Pack Thermal Runaway Barrier market shares of main players, shipments in revenue ($ Million), sales quantity (K Sqm), and ASP (US$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

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

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To assess the growth potential for Battery Pack Thermal Runaway Barrier

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 Battery Pack Thermal Runaway Barrier 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 3M Company, Rogers Corporation, Saint-Gobain, Aspen Aerogels, Inc., Alkegen, Morgan Advanced Materials plc, Freudenberg Performance Materials, Autoneum Holding Ltd., DuPont de Nemours, Inc., tesa SE, etc.

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

Market Segmentation

Battery Pack Thermal Runaway Barrier 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

Aerogel Composite

Mica-Based Material

Ceramic Fiber Material

Polymer Composite

Market segment by Structural Flexibility

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Flexible Barrier

Semi-Rigid Barrier

Rigid Barrier

Market segment by Fire Resistance

Flame-Retardant Type

Non-Combustible Type

Market segment by Application

Electric Vehicles

Energy Storage Systems

Consumer Electronics

Industrial Equipment

Aerospace & Defense

Others

Major players covered

3M Company

Rogers Corporation

Saint-Gobain

Aspen Aerogels, Inc.

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Alkegen

Morgan Advanced Materials plc

Freudenberg Performance Materials

Autoneum Holding Ltd.

DuPont de Nemours, Inc.

tesa SE

Sumitomo Riko Company Limited

LG Chem, Ltd.

Elmelin Ltd.

Zhejiang Rongtai Electric Material Co., Ltd.

Gongyi Van-Research Composite Material Co., Ltd.

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)

Chapter Outline

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Chapter 1, to describe Battery Pack Thermal Runaway Barrier product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Thermal Runaway Barrier, with price, sales quantity, revenue, and global market share of Battery Pack Thermal Runaway Barrier from 2021 to 2026.

Chapter 3, the Battery Pack Thermal Runaway Barrier competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Thermal Runaway Barrier 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 Battery Pack Thermal Runaway Barrier 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 Battery Pack Thermal Runaway Barrier.

Chapter 14 and 15, to describe Battery Pack Thermal Runaway Barrier sales channel, distributors, customers, research findings and conclusion.

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