

Global Battery Vent Protection Membrane 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 Battery Vent Protection Membrane market size was valued at US\$ 129 million in 2025 and is forecast to a readjusted size of US\$ 264 million by 2032 with a CAGR of 10.7% during review period.

Battery Venting Protection Membranes are microporous breathable protective materials used in power battery packs, energy storage battery cabinets, and battery management system enclosures. They are commonly based on ePTFE, sintered PTFE, or ion-track-etched polymer membranes and are further enhanced through hydrophobic, oleophobic, flame-retardant, or composite reinforcement treatments to provide pressure equalization, water and dust protection, and contaminant resistance. Under normal operating conditions, these materials allow controlled air and water vapor exchange, reducing pressure differentials caused by temperature fluctuations, altitude changes, and battery charging or discharging. During thermal runaway events or abnormal gas generation, they can work together with rupture disks, vent valves, or predetermined burst structures to rapidly release gas, helping to reduce enclosure swelling, sealing failure, and secondary propagation risks. The overall gross margin is approximately 48%.

Demand for battery venting protection membranes is primarily driven by increasingly stringent battery safety standards and the trend toward lightweight battery pack structures. Electric vehicles and energy storage systems require higher levels of protection, including IP67/IP68, IP6K9K, salt spray resistance, oil contamination resistance, and long-term pressure equalization. Traditional sealing-only designs often struggle to simultaneously meet waterproofing and breathing requirements, making venting components incorporating microporous membranes an increasingly

standardized feature in battery pack enclosures.

Product development is focused on high airflow capacity, low opening pressure, hydrophobic and oleophobic performance, flame resistance, and rapid pressure release during thermal runaway events. ePTFE remains the dominant material platform, while sintered PTFE, ion-track-etched membranes, and composite membrane structures are gaining adoption due to advantages in burst consistency, mechanical strength, and contamination resistance. Procurement decisions typically emphasize air permeability, water entry pressure, burst pressure, operating temperature range, flame-retardant rating, IP protection level, assembly method, and lifetime validation performance.

The competitive landscape consists of international material suppliers, filtration technology companies, automotive sealing component manufacturers, and Chinese ePTFE membrane producers. European and North American suppliers maintain strong advantages in automotive-grade qualification, dual-stage venting technologies, and high-reliability materials. Chinese manufacturers benefit from the rapid expansion of domestic battery, energy storage, and new energy vehicle supply chains, offering faster pricing responses and more agile customized development capabilities.

This report is a detailed and comprehensive analysis for global Battery Vent Protection Membrane 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 Vent Protection Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Vent Protection Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Vent Protection Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Vent Protection Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Battery Vent Protection Membrane

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 Vent Protection Membrane 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 Gore, Donaldson, Porex, Freudenberg Sealing Technologies, MANN+HUMMEL, Parker, Nitto, Saint-Gobain, Oxyphen, MicroVENT, etc.

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

Market Segmentation

Battery Vent Protection Membrane 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

ePTFE Membrane

Sintered PTFE Membrane

Track-Etched Polymer Membrane

Composite Laminated Membrane

Other Polymer Membrane

Market segment by Surface Treatment

Hydrophobic Membrane

Oleophobic Membrane

Hydrophobic and Oleophobic Membrane

Flame-Retardant Membrane

Untreated or Other Membrane

Market segment by Functional Grade

Pressure Equalization Membrane

Emergency Burst Membrane

Dual-Stage Venting Membrane

Condensation Control Membrane

Other Functional Membrane

Market segment by Supply Form

Adhesive Vent Patch

Weldable Membrane

Rollstock Membrane

Inserted Vent Plug Membrane

Integrated Vent Valve Membrane

Other Supply Form

Market segment by Application

EV Traction Battery Packs

Commercial Vehicle Battery Systems

Energy Storage Battery Cabinets

Two-Wheeler and Light Mobility Batteries

Battery Management System Enclosures

Other Sealed Battery Enclosures

Major players covered

Gore

Donaldson

Porex

Freudenberg Sealing Technologies

MANN+HUMMEL

Parker

Nitto

Saint-Gobain

Oxyphen

MicroVENT

PUW

SANG-A FRONTEC

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 Battery Vent Protection Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Vent Protection Membrane, with price, sales quantity, revenue, and global market share of Battery Vent Protection Membrane from 2021 to 2026.

Chapter 3, the Battery Vent Protection Membrane competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Vent Protection Membrane 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 Vent Protection Membrane 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 Vent Protection Membrane.

Chapter 14 and 15, to describe Battery Vent Protection Membrane sales channel, distributors, customers, research findings and conclusion.

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