

Global Battery Vent Protection Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Vent Protection Membrane market size is expected to reach \$ 264 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

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 studies the global Battery Vent Protection Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Vent Protection Membrane 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 Battery Vent Protection Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Vent Protection Membrane total production and demand, 2021-2032, (kg)

Global Battery Vent Protection Membrane total production value, 2021-2032, (USD Million)

Global Battery Vent Protection Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Battery Vent Protection Membrane consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Battery Vent Protection Membrane domestic production, consumption, key domestic manufacturers and share

Global Battery Vent Protection Membrane production by manufacturer, production,

price, value and market share 2021-2026, (USD Million) & (kg)

Global Battery Vent Protection Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Battery Vent Protection Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Battery Vent Protection Membrane 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Vent Protection Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Battery Vent Protection Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Vent Protection Membrane Market, Segmentation by Type:

ePTFE Membrane

Sintered PTFE Membrane

Track-Etched Polymer Membrane

Composite Laminated Membrane

Other Polymer Membrane

Global Battery Vent Protection Membrane Market, Segmentation by Surface Treatment:

Hydrophobic Membrane

Oleophobic Membrane

Hydrophobic and Oleophobic Membrane

Flame-Retardant Membrane

Untreated or Other Membrane

Global Battery Vent Protection Membrane Market, Segmentation by Functional Grade:

Pressure Equalization Membrane

Emergency Burst Membrane

Dual-Stage Venting Membrane

Condensation Control Membrane

Other Functional Membrane

Global Battery Vent Protection Membrane Market, Segmentation by Supply Form:

Adhesive Vent Patch

Weldable Membrane

Rollstock Membrane

Inserted Vent Plug Membrane

Integrated Vent Valve Membrane

Other Supply Form

Global Battery Vent Protection Membrane Market, Segmentation 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

Companies Profiled:

Gore

Donaldson

Porex

Freudenberg Sealing Technologies

MANN+HUMMEL

Parker

Nitto

Saint-Gobain

Oxyphen

MicroVENT

PUW

SANG-A FRONTEC

Key Questions Answered:

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

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