

Global PV and VP Membranes 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 PV and VP Membranes market size was valued at US\$ 109 million in 2025 and is forecast to a readjusted size of US\$ 162 million by 2032 with a CAGR of 6.4% during review period.

In 2025, global PV and VP Membranes sales reached approximately 68.33 K Sqm, with an average global market price of around US\$ 1,552 per Spm.

Both PV (pervaporation membrane) and VP (vapor permeation membrane) belong to the "membrane separation" material and component system, used to achieve selective separation of target components in gas/vapor or liquid mixtures without introducing high-energy-consuming phase change separation processes like traditional distillation. Pervaporation membranes (PV) use liquid mixtures as feed, where components selectively dissolve and diffuse within the membrane. A low partial pressure is maintained on the permeate side (vacuum or carrier gas purging) to allow the permeate to be carried out as vapor and condensed for recovery. Typical applications include dehydration of organic systems such as alcohols/esters, separation of azeotropic/near-boiling systems, and fine separation and process intensification of aromatic/alkanes or organic/water systems. Vapor permeation membranes (VP) typically handle feeds that are predominantly vapor or gas. They achieve selective permeation by exploiting differences in the dissolution-diffusion rates of different molecules, and are commonly used for organic solvent vapor recovery, process tail gas purification, dehumidification, and removal of trace impurities from gases.

PV (pervaporation) and VP (vapor permeation) membranes are typically produced in a "three-stage" model: Selective-layer fabrication—polymeric suppliers (e.g., PVA, PI,

PDMS, PEBA) often use dope preparation, casting/phase inversion, crosslinking, hollow-fiber spinning, and composite coating; inorganic routes (zeolite/ceramic) focus on support forming, seeding/hydrothermal growth, calcination, and defect healing. Module standardization—membranes are packaged into spiral-wound, plate-and-frame, tubular, or hollow-fiber modules with validated sealing, chemical resistance, and thermal stability. System integration—vacuum or sweep-gas design, condensation/recovery, pretreatment, and controls are configured into skid systems, supported by membrane replacement and O&M services. Gross margins generally rise with value-added along the chain: membrane materials and standard modules ~25%–55%, potentially higher for proprietary chemistries/structures; turnkey skid systems and project delivery ~20%–45%, depending on customization and procurement volatility. Upstream includes polymers/monomers, solvents/additives, reinforcements (nonwovens/scrim), ceramic/alumina supports and zeolite precursors, plus vacuum, heat-exchange, condensation, and instrumentation components. Midstream covers membrane making, module assembly, and performance QA. Downstream demand concentrates in bioethanol and solvent dehydration, azeotrope/close-boiling separations, specialty chemicals and pharma, petrochemicals and VOC recovery, electronic chemicals and high-purity solvents, and flavors/fragrances, with recurring revenues driven by consumable membrane replacement and service contracts.

This report is a detailed and comprehensive analysis for global PV and VP Membranes 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 PV and VP Membranes market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global PV and VP Membranes 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 PV and VP Membranes 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 PV and VP Membranes 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
- To assess the growth potential for PV and VP Membranes
- 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 PV and VP Membranes 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, Mitsui E&S Power Systems, Petro Sep, Kanadevia, DeltaMem AG, Jiangsu Nine Heaven High-Tech, Fraunhofer IKTS, Wuhan Zhihong Sibio, Pervatech, Shandong Lanjing Film, etc.

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

Market Segmentation

PV and VP Membranes 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

Organic Membranes

Inorganic Membranes

Mixed Matrix Membranes

Market segment by Sorption Affinity Type

Hydrophilic Membranes

Hydrophobic Membranes

Market segment by Mass Transfer Mechanism

Solution-Diffusion Model

Molecular Sieving

Market segment by Modular Form

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Multichannel Ceramic

Others

Market segment by Application

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Waste and Wastewater Treatment

Others

Major players covered

Mitsubishi Chemical

Mitsui E&S Power Systems

Petro Sep

Kanadevia

DeltaMem AG

Jiangsu Nine Heaven High-Tech

Fraunhofer IKTS

Wuhan Zhihong Sibo

Pervatech

Shandong Lanjing Film

SINYUAN Membrane Technology

TANGENT

Zhejiang Hymater New Materials

Dalian HST Technology

i3 Nanotec

Nagayanagi

AIRRANE

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 PV and VP Membranes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PV and VP Membranes, with price, sales quantity, revenue, and global market share of PV and VP Membranes from 2021 to 2026.

Chapter 3, the PV and VP Membranes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PV and VP Membranes 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 PV and VP Membranes 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 PV and VP Membranes.

Chapter 14 and 15, to describe PV and VP Membranes sales channel, distributors, customers, research findings and conclusion.

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