

# Global PV and VP Membranes Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global PV and VP Membranes market size is expected to reach \$ 162 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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/scrims), 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 studies the global PV and VP Membranes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PV and VP Membranes 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 PV and VP Membranes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PV and VP Membranes total production and demand, 2021-2032, (K Sqm)

Global PV and VP Membranes total production value, 2021-2032, (USD Million)

Global PV and VP Membranes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global PV and VP Membranes consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: PV and VP Membranes domestic production, consumption, key domestic manufacturers and share

Global PV and VP Membranes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global PV and VP Membranes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global PV and VP Membranes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global PV and VP Membranes 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 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, 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 PV and VP Membranes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 PV and VP Membranes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global PV and VP Membranes Market, Segmentation by Type:

Organic Membranes

Inorganic Membranes

Mixed Matrix Membranes

#### Global PV and VP Membranes Market, Segmentation by Sorption Affinity Type:

Hydrophilic Membranes

Hydrophobic Membranes

#### Global PV and VP Membranes Market, Segmentation by Mass Transfer Mechanism:

Solution-Diffusion Model

Molecular Sieving

#### Global PV and VP Membranes Market, Segmentation by Modular Form:

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Multichannel Ceramic

Others

#### Global PV and VP Membranes Market, Segmentation by Application:

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Waste and Wastewater Treatment

Others

#### Companies Profiled:

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

#### Key Questions Answered:

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

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