

Global Gas Separation Polymeric Membrane Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Gas Separation Polymeric Membrane market size was valued at US\$ 720 million in 2024 and is forecast to a readjusted size of USD 1027 million by 2031 with a CAGR of 4.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Gas separation polymeric membranes are materials used to selectively separate different components of a gas mixture based on their ability to permeate through the membrane at different rates. These membranes are typically made from polymeric materials, utilizing either the pore structure or molecular chain characteristics of the polymer to separate different gas molecules. Gas separation membranes are widely used in various industrial applications, especially in natural gas treatment, air separation, hydrogen purification, and carbon dioxide capture.

Compared to traditional physical adsorption or chemical absorption methods, polymeric membranes offer several advantages. They can achieve efficient gas separation with low energy consumption and reduced costs. Additionally, these membranes have a compact design, which saves space significantly. The core principle of the technology relies on the difference in diffusion rates of gas molecules across the polymer membrane surface and pore structure, allowing for selective separation of certain gas components.

Currently, the market for gas separation polymeric membranes is growing rapidly, and they have become one of the leading technologies in industrial gas separation. With increasing environmental regulations, the need for energy-efficient separation technologies, and growing demand for cost-effective solutions, the market for gas separation membranes is expected to continue expanding. Furthermore, advancements in new materials will further enhance the separation efficiency and durability of these membranes, broadening their application scope.

The market for gas separation polymeric membranes is currently undergoing rapid development. With the increasing global focus on environmental protection and energy efficiency, the demand for industrial gas separation technologies is rising. Gas separation membranes, especially in fields like natural gas purification, hydrogen purification, carbon dioxide capture, and air separation, are showing distinct advantages.

Currently, the primary applications of gas separation membranes are concentrated in the oil and gas industry, chemical industry, and environmental protection sectors. In natural gas treatment, for example, gas separation membranes remove impurities such as carbon dioxide and hydrogen sulfide, improving the quality of natural gas, and they are becoming the preferred technology for more natural gas extraction plants. Additionally, as renewable energy grows and the demand for clean energy increases, the purification and storage of hydrogen are also driving further development in gas separation membrane technology.

Looking ahead, the market for gas separation polymeric membranes is expected to continue growing. First, with innovations in membrane materials and the development of new polymers, the separation efficiency and durability of membranes will significantly improve. In particular, the development of high-selectivity membranes that are resistant to high temperatures and corrosion will allow these membranes to meet the requirements of more extreme application conditions. Second, with the global emphasis on reducing greenhouse gas emissions, carbon dioxide capture has become an important application area for gas separation membranes. More efficient and cost-effective gas separation technologies will make carbon capture and storage (CCS) an integral part of emission reduction strategies.

Moreover, the modular design and large-scale application of gas separation membranes will further reduce equipment costs and increase the technology's accessibility. As the technology continues to mature, gas separation membranes will gradually replace traditional separation methods and play a more important role across multiple

industries.

This report is a detailed and comprehensive analysis for global Gas Separation Polymeric 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 Gas Separation Polymeric Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Separation Polymeric Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Separation Polymeric Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gas Separation Polymeric Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Gas Separation Polymeric 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 Gas Separation Polymeric 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 Air Products, Air Liquide, UBE, Grasys, Evonik, Fujifilm, Generon IGS, Honeywell, MTR, Borsig, etc.

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

Market Segmentation

Gas Separation Polymeric Membrane market is split by Type and by Application. For the period 2020-2031, 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

Hollow Fiber

Spiral Wound

Others

Market segment by Application

Industrial Gas Recycling

Energy Industries

Environmental Protection

Healthcare

Major players covered

Air Products

Air Liquide

UBE

Grasys

Evonik

Fujifilm

Generon IGS

Honeywell

MTR

Borsig

Parker Hannifin

Tianbang

SSS

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 Gas Separation Polymeric Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Separation Polymeric Membrane, with price, sales quantity, revenue, and global market share of Gas Separation Polymeric Membrane from 2020 to 2025.

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

Chapter 4, the Gas Separation Polymeric Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Gas Separation Polymeric Membrane market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Gas Separation Polymeric Membrane.

Chapter 14 and 15, to describe Gas Separation Polymeric Membrane sales channel, distributors, customers, research findings and conclusion.

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