

Global Polymeric Membrane for Hydrogen Gas Separation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polymeric Membrane for Hydrogen Gas Separation market size is expected to reach \$ 351 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Polymeric Membranes for Hydrogen Gas Separation are gas separation membranes, modules, and packaged systems that use a polymer selective layer to preferentially permeate hydrogen based on differences in solubility and diffusion. Commercial products today are dominated by polyimide based hollow fiber modules, with some composite and spiral configurations used in specific designs. They are mainly deployed in refinery purge gas recovery, ammonia and methanol purge gas treatment, syngas ratio adjustment, and industrial hydrogen purification, either as standalone units or in hybrid flows combined with PSA. Their commercial appeal lies in continuous operation, relatively low energy demand, compact footprint, and modular scalability, making them one of the most established membrane based routes for industrial hydrogen recovery and process optimization.

From a global hydrogen and industrial gas processing perspective, polymeric membranes for hydrogen separation are moving from a supporting role toward a more strategic process function. Refineries, ammonia plants, methanol units, and syngas operations have long contained hydrogen rich purge and off gas streams, and operators are increasingly looking for compact, continuous, and modular technologies that can be integrated into existing plants without the footprint and energy burden of more complex alternatives. This is where polymeric membrane systems are gaining momentum. They help reduce fresh hydrogen demand, improve hydrogen recovery, and strengthen overall process efficiency, while hybrid membrane plus PSA schemes are broadening

the commercial value proposition from simple gas upgrading to full process optimization. As a result, these membranes are becoming more than just separation materials; they are emerging as enabling equipment within industrial decarbonization, hydrogen recovery, and low carbon gas handling value chains.

Even so, the market still faces several structural constraints. Industrial customers care less about peak laboratory selectivity and far more about long term stability under high pressure and impurity rich gas streams, especially where carbon dioxide, heavy hydrocarbons, and process fluctuations can accelerate aging or plasticization. That raises the barrier to entry and favors suppliers with integrated capabilities in polymer chemistry, hollow fiber spinning, module engineering, and system design. In parallel, adoption is increasingly judged on total process economics rather than membrane performance alone, meaning suppliers must continue to improve the balance among recovery, purity, compression duty, and downstream purification load. Despite these challenges, the downstream outlook remains favorable. As refinery decarbonization, chemical process intensification, byproduct hydrogen recovery, and low carbon hydrogen infrastructure continue to advance together, polymeric hydrogen separation membranes are well positioned to benefit from both retrofit demand and new build opportunities. Competition is therefore shifting from pure material performance toward a broader contest in module reliability, system integration, and application specific engineering.

This report studies the global Polymeric Membrane for Hydrogen Gas Separation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polymeric Membrane for Hydrogen Gas Separation, 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 Polymeric Membrane for Hydrogen Gas Separation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polymeric Membrane for Hydrogen Gas Separation total market, 2021-2032, (USD Million)

Global Polymeric Membrane for Hydrogen Gas Separation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Polymeric Membrane for Hydrogen Gas Separation total market, key domestic companies, and share, (USD Million)

Global Polymeric Membrane for Hydrogen Gas Separation revenue by player, revenue and market share 2021-2026, (USD Million)

Global Polymeric Membrane for Hydrogen Gas Separation total market by Type, CAGR, 2021-2032, (USD Million)

Global Polymeric Membrane for Hydrogen Gas Separation total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Polymeric Membrane for Hydrogen Gas Separation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Liquide, Evonik Industries, BORSIG, Air Products, Linde Engineering, Honeywell, Toray, UBE Industries, Tianbang, 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 Polymeric Membrane for Hydrogen Gas Separation market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Polymeric Membrane for Hydrogen Gas Separation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polymeric Membrane for Hydrogen Gas Separation Market, Segmentation by Type:

Hollow Fiber Module

Spiral Wound Module

Plate and Frame Module

Global Polymeric Membrane for Hydrogen Gas Separation Market, Segmentation by Membrane Material Family:

Polyimide Based

Polysulfone Based

Cellulose Based

Others

Global Polymeric Membrane for Hydrogen Gas Separation Market, Segmentation by Feed Gas System:

Hydrogen and Hydrocarbon Streams

Hydrogen and Carbon Oxide Streams

Hydrogen and Inert Gas Streams

Others

Global Polymeric Membrane for Hydrogen Gas Separation Market, Segmentation by End Use Industry:

Refining and Petrochemical

Ammonia and Fertilizer

Industrial Gas and Hydrogen Plants

Others

Global Polymeric Membrane for Hydrogen Gas Separation Market, Segmentation by Application:

Hydrogen Recovery

Hydrogen Purification

Syngas Ratio Adjustment

Others

Companies Profiled:

Air Liquide

Evonik Industries

BORSIG

Air Products

Linde Engineering

Honeywell

Toray

UBE Industries

Tianbang

Key Questions Answered

1. How big is the global Polymeric Membrane for Hydrogen Gas Separation market?
2. What is the demand of the global Polymeric Membrane for Hydrogen Gas Separation market?
3. What is the year over year growth of the global Polymeric Membrane for Hydrogen Gas Separation market?
4. What is the total value of the global Polymeric Membrane for Hydrogen Gas Separation market?
5. Who are the Major Players in the global Polymeric Membrane for Hydrogen Gas Separation market?
6. What are the growth factors driving the market demand?

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