

# Global Polymeric Membrane for Hydrogen Gas Separation Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Polymeric Membrane for Hydrogen Gas Separation market size is predicted to grow from US\$ 225 million in 2025 to US\$ 341 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 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.

LPI (LP Information)' newest research report, the 'Polymeric Membrane for Hydrogen Gas Separation Industry Forecast' looks at past sales and reviews total world Polymeric Membrane for Hydrogen Gas Separation sales in 2025, providing a comprehensive analysis by region and market sector of projected Polymeric Membrane for Hydrogen Gas Separation sales for 2026 through 2032. With Polymeric Membrane for Hydrogen Gas Separation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polymeric Membrane for Hydrogen Gas Separation industry.

This Insight Report provides a comprehensive analysis of the global Polymeric Membrane for Hydrogen Gas Separation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Polymeric Membrane for Hydrogen Gas Separation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polymeric Membrane for Hydrogen Gas Separation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polymeric Membrane for Hydrogen Gas Separation and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Polymeric Membrane for Hydrogen Gas Separation.

This report presents a comprehensive overview, market shares, and growth opportunities of Polymeric Membrane for Hydrogen Gas Separation market by product type, application, key players and key regions and countries.

#### Segmentation by Type:

Hollow Fiber Module

Spiral Wound Module

Plate and Frame Module

#### Segmentation by Membrane Material Family:

Polyimide Based

Polysulfone Based

Cellulose Based

Others

#### Segmentation by Feed Gas System:

Hydrogen and Hydrocarbon Streams

Hydrogen and Carbon Oxide Streams

Hydrogen and Inert Gas Streams

Others

Segmentation by End Use Industry:

Refining and Petrochemical

Ammonia and Fertilizer

Industrial Gas and Hydrogen Plants

Others

Segmentation by Application:

Hydrogen Recovery

Hydrogen Purification

Syngas Ratio Adjustment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Air Liquide

Evonik Industries

BORSIG

Air Products

Linde Engineering

Honeywell

Toray

UBE Industries

Tianbang

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Polymeric Membrane for Hydrogen Gas Separation Market Size (2021-2032)

- 2.1.2 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Region (2021 VS 2025 VS 2032)

- 2.1.3 World Current & Future Analysis for Polymeric Membrane for Hydrogen Gas Separation by Country/Region (2021, 2025 & 2032)

#### 2.2 Polymeric Membrane for Hydrogen Gas Separation Segment by Type

- 2.2.1 Hollow Fiber Module

- 2.2.2 Spiral Wound Module

- 2.2.3 Plate and Frame Module

- 2.2.4 Polymeric Membrane for Hydrogen Gas Separation Market Size by Type

- 2.2.4.1 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Type (2021 VS 2025 VS 2032)

- 2.2.4.2 Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type (2021-2026)

#### 2.3 Polymeric Membrane for Hydrogen Gas Separation Segment by Membrane Material Family

- 2.3.1 Polyimide Based

- 2.3.2 Polysulfone Based

- 2.3.3 Cellulose Based

- 2.3.4 Others

- 2.3.5 Polymeric Membrane for Hydrogen Gas Separation Market Size by Membrane Material Family

2.3.5.1 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Membrane Material Family (2021 VS 2025 VS 2032)

2.3.5.2 Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Membrane Material Family (2021-2026)

2.4 Polymeric Membrane for Hydrogen Gas Separation Segment by Feed Gas System

2.4.1 Hydrogen and Hydrocarbon Streams

2.4.2 Hydrogen and Carbon Oxide Streams

2.4.3 Hydrogen and Inert Gas Streams

2.4.4 Others

2.4.5 Polymeric Membrane for Hydrogen Gas Separation Market Size by Feed Gas System

2.4.5.1 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Feed Gas System (2021 VS 2025 VS 2032)

2.4.5.2 Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Feed Gas System (2021-2026)

2.5 Polymeric Membrane for Hydrogen Gas Separation Segment by End Use Industry

2.5.1 Refining and Petrochemical

2.5.2 Ammonia and Fertilizer

2.5.3 Industrial Gas and Hydrogen Plants

2.5.4 Others

2.5.5 Polymeric Membrane for Hydrogen Gas Separation Market Size by End Use Industry

2.5.5.1 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by End Use Industry (2021 VS 2025 VS 2032)

2.5.5.2 Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by End Use Industry (2021-2026)

2.6 Polymeric Membrane for Hydrogen Gas Separation Segment by Application

2.6.1 Hydrogen Recovery

2.6.2 Hydrogen Purification

2.6.3 Syngas Ratio Adjustment

2.6.4 Others

2.6.5 Polymeric Membrane for Hydrogen Gas Separation Market Size by Application

2.6.5.1 Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.6.5.2 Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

### **3 POLYMERIC MEMBRANE FOR HYDROGEN GAS SEPARATION MARKET SIZE BY PLAYER**

### 3.1 Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Player

3.1.1 Global Polymeric Membrane for Hydrogen Gas Separation Revenue by Player (2021-2026)

3.1.2 Global Polymeric Membrane for Hydrogen Gas Separation Revenue Market Share by Player (2021-2026)

3.2 Global Polymeric Membrane for Hydrogen Gas Separation Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

## 4 POLYMERIC MEMBRANE FOR HYDROGEN GAS SEPARATION BY REGION

4.1 Polymeric Membrane for Hydrogen Gas Separation Market Size by Region (2021-2026)

4.2 Global Polymeric Membrane for Hydrogen Gas Separation Annual Revenue by Country/Region (2021-2026)

4.3 Americas Polymeric Membrane for Hydrogen Gas Separation Market Size Growth (2021-2026)

4.4 APAC Polymeric Membrane for Hydrogen Gas Separation Market Size Growth (2021-2026)

4.5 Europe Polymeric Membrane for Hydrogen Gas Separation Market Size Growth (2021-2026)

4.6 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size Growth (2021-2026)

## 5 AMERICAS

5.1 Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Country (2021-2026)

5.2 Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026)

5.3 Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Region (2021-2026)

6.2 APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026)

6.3 APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

## **7 EUROPE**

7.1 Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Country (2021-2026)

7.2 Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026)

7.3 Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation by Region (2021-2026)

8.2 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026)

### 8.3 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## 9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## 10 GLOBAL POLYMERIC MEMBRANE FOR HYDROGEN GAS SEPARATION MARKET FORECAST

10.1 Global Polymeric Membrane for Hydrogen Gas Separation Forecast by Region (2027-2032)

10.1.1 Global Polymeric Membrane for Hydrogen Gas Separation Forecast by Region (2027-2032)

10.1.2 Americas Polymeric Membrane for Hydrogen Gas Separation Forecast

10.1.3 APAC Polymeric Membrane for Hydrogen Gas Separation Forecast

10.1.4 Europe Polymeric Membrane for Hydrogen Gas Separation Forecast

10.1.5 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Forecast

10.2 Americas Polymeric Membrane for Hydrogen Gas Separation Forecast by Country (2027-2032)

10.2.1 United States Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.2.2 Canada Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.2.3 Mexico Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.2.4 Brazil Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.3 APAC Polymeric Membrane for Hydrogen Gas Separation Forecast by Region (2027-2032)

10.3.1 China Polymeric Membrane for Hydrogen Gas Separation Market Forecast

10.3.2 Japan Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.3.3 Korea Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.3.4 Southeast Asia Market Polymeric Membrane for Hydrogen Gas Separation

## Forecast

10.3.5 India Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.3.6 Australia Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.4 Europe Polymeric Membrane for Hydrogen Gas Separation Forecast by Country (2027-2032)

10.4.1 Germany Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.4.2 France Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.4.3 UK Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.4.4 Italy Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.4.5 Russia Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.5 Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Forecast by Region (2027-2032)

10.5.1 Egypt Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.5.2 South Africa Market Polymeric Membrane for Hydrogen Gas Separation

## Forecast

10.5.3 Israel Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.5.4 Turkey Market Polymeric Membrane for Hydrogen Gas Separation Forecast

10.6 Global Polymeric Membrane for Hydrogen Gas Separation Forecast by Type (2027-2032)

10.7 Global Polymeric Membrane for Hydrogen Gas Separation Forecast by Application (2027-2032)

10.7.1 GCC Countries Market Polymeric Membrane for Hydrogen Gas Separation

## Forecast

## 11 KEY PLAYERS ANALYSIS

### 11.1 Air Liquide

11.1.1 Air Liquide Company Information

11.1.2 Air Liquide Polymeric Membrane for Hydrogen Gas Separation Product Offered

11.1.3 Air Liquide Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)

11.1.4 Air Liquide Main Business Overview

11.1.5 Air Liquide Latest Developments

### 11.2 Evonik Industries

11.2.1 Evonik Industries Company Information

11.2.2 Evonik Industries Polymeric Membrane for Hydrogen Gas Separation Product Offered

11.2.3 Evonik Industries Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)

- 11.2.4 Evonik Industries Main Business Overview
- 11.2.5 Evonik Industries Latest Developments
- 11.3 BORSIG
  - 11.3.1 BORSIG Company Information
  - 11.3.2 BORSIG Polymeric Membrane for Hydrogen Gas Separation Product Offered
  - 11.3.3 BORSIG Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)
  - 11.3.4 BORSIG Main Business Overview
  - 11.3.5 BORSIG Latest Developments
- 11.4 Air Products
  - 11.4.1 Air Products Company Information
  - 11.4.2 Air Products Polymeric Membrane for Hydrogen Gas Separation Product Offered
  - 11.4.3 Air Products Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)
  - 11.4.4 Air Products Main Business Overview
  - 11.4.5 Air Products Latest Developments
- 11.5 Linde Engineering
  - 11.5.1 Linde Engineering Company Information
  - 11.5.2 Linde Engineering Polymeric Membrane for Hydrogen Gas Separation Product Offered
  - 11.5.3 Linde Engineering Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)
  - 11.5.4 Linde Engineering Main Business Overview
  - 11.5.5 Linde Engineering Latest Developments
- 11.6 Honeywell
  - 11.6.1 Honeywell Company Information
  - 11.6.2 Honeywell Polymeric Membrane for Hydrogen Gas Separation Product Offered
  - 11.6.3 Honeywell Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)
  - 11.6.4 Honeywell Main Business Overview
  - 11.6.5 Honeywell Latest Developments
- 11.7 Toray
  - 11.7.1 Toray Company Information
  - 11.7.2 Toray Polymeric Membrane for Hydrogen Gas Separation Product Offered
  - 11.7.3 Toray Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)
  - 11.7.4 Toray Main Business Overview
  - 11.7.5 Toray Latest Developments

## 11.8 UBE Industries

11.8.1 UBE Industries Company Information

11.8.2 UBE Industries Polymeric Membrane for Hydrogen Gas Separation Product Offered

11.8.3 UBE Industries Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 UBE Industries Main Business Overview

11.8.5 UBE Industries Latest Developments

## 11.9 Tianbang

11.9.1 Tianbang Company Information

11.9.2 Tianbang Polymeric Membrane for Hydrogen Gas Separation Product Offered

11.9.3 Tianbang Polymeric Membrane for Hydrogen Gas Separation Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 Tianbang Main Business Overview

11.9.5 Tianbang Latest Developments

## **12 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Polymeric Membrane for Hydrogen Gas Separation Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Hollow Fiber Module
- Table 4. Major Players of Spiral Wound Module
- Table 5. Major Players of Plate and Frame Module
- Table 6. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)
- Table 7. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026) & (\$ millions)
- Table 8. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type (2021-2026)
- Table 9. Major Players of Polyimide Based
- Table 10. Major Players of Polysulfone Based
- Table 11. Major Players of Cellulose Based
- Table 12. Major Players of Others
- Table 13. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Membrane Material Family (2021 VS 2025 VS 2032) & (\$ millions)
- Table 14. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by Membrane Material Family (2021-2026) & (\$ millions)
- Table 15. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Membrane Material Family (2021-2026)
- Table 16. Major Players of Hydrogen and Hydrocarbon Streams
- Table 17. Major Players of Hydrogen and Carbon Oxide Streams
- Table 18. Major Players of Hydrogen and Inert Gas Streams
- Table 19. Major Players of Others
- Table 20. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Feed Gas System (2021 VS 2025 VS 2032) & (\$ millions)
- Table 21. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by Feed Gas System (2021-2026) & (\$ millions)
- Table 22. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Feed Gas System (2021-2026)
- Table 23. Major Players of Refining and Petrochemical
- Table 24. Major Players of Ammonia and Fertilizer

Table 25. Major Players of Industrial Gas and Hydrogen Plants

Table 26. Major Players of Others

Table 27. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by End Use Industry (2021 VS 2025 VS 2032) & (\$ millions)

Table 28. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by End Use Industry (2021-2026) & (\$ millions)

Table 29. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by End Use Industry (2021-2026)

Table 30. Polymeric Membrane for Hydrogen Gas Separation Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 31. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026) & (\$ millions)

Table 32. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

Table 33. Global Polymeric Membrane for Hydrogen Gas Separation Revenue by Player (2021-2026) & (\$ millions)

Table 34. Global Polymeric Membrane for Hydrogen Gas Separation Revenue Market Share by Player (2021-2026)

Table 35. Polymeric Membrane for Hydrogen Gas Separation Key Players Head office and Products Offered

Table 36. Polymeric Membrane for Hydrogen Gas Separation Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Mergers & Acquisitions, Expansion

Table 39. Global Polymeric Membrane for Hydrogen Gas Separation Market Size by Region (2021-2026) & (\$ millions)

Table 40. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Region (2021-2026)

Table 41. Global Polymeric Membrane for Hydrogen Gas Separation Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Polymeric Membrane for Hydrogen Gas Separation Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Country (2021-2026) & (\$ millions)

Table 44. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Country (2021-2026)

Table 45. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026) & (\$ millions)

Table 46. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size

## Market Share by Type (2021-2026)

Table 47. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026) & (\$ millions)

Table 48. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

Table 49. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Region (2021-2026) & (\$ millions)

Table 50. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Region (2021-2026)

Table 51. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026) & (\$ millions)

Table 52. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026) & (\$ millions)

Table 53. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Country (2021-2026) & (\$ millions)

Table 54. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Country (2021-2026)

Table 55. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026) & (\$ millions)

Table 56. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026) & (\$ millions)

Table 57. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size by Region (2021-2026) & (\$ millions)

Table 58. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size by Type (2021-2026) & (\$ millions)

Table 59. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size by Application (2021-2026) & (\$ millions)

Table 60. Key Market Drivers & Growth Opportunities of Polymeric Membrane for Hydrogen Gas Separation

Table 61. Key Market Challenges & Risks of Polymeric Membrane for Hydrogen Gas Separation

Table 62. Key Industry Trends of Polymeric Membrane for Hydrogen Gas Separation

Table 63. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 64. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share Forecast by Region (2027-2032)

Table 65. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 66. Global Polymeric Membrane for Hydrogen Gas Separation Market Size

Forecast by Application (2027-2032) & (\$ millions)

Table 67. Air Liquide Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 68. Air Liquide Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 69. Air Liquide Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Air Liquide Main Business

Table 71. Air Liquide Latest Developments

Table 72. Evonik Industries Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 73. Evonik Industries Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 74. Evonik Industries Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. Evonik Industries Main Business

Table 76. Evonik Industries Latest Developments

Table 77. BORSIG Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 78. BORSIG Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 79. BORSIG Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. BORSIG Main Business

Table 81. BORSIG Latest Developments

Table 82. Air Products Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 83. Air Products Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 84. Air Products Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Air Products Main Business

Table 86. Air Products Latest Developments

Table 87. Linde Engineering Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 88. Linde Engineering Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 89. Linde Engineering Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. Linde Engineering Main Business

Table 91. Linde Engineering Latest Developments

Table 92. Honeywell Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 93. Honeywell Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 94. Honeywell Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. Honeywell Main Business

Table 96. Honeywell Latest Developments

Table 97. Toray Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 98. Toray Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 99. Toray Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Toray Main Business

Table 101. Toray Latest Developments

Table 102. UBE Industries Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 103. UBE Industries Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 104. UBE Industries Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. UBE Industries Main Business

Table 106. UBE Industries Latest Developments

Table 107. Tianbang Details, Company Type, Polymeric Membrane for Hydrogen Gas Separation Area Served and Its Competitors

Table 108. Tianbang Polymeric Membrane for Hydrogen Gas Separation Product Offered

Table 109. Tianbang Polymeric Membrane for Hydrogen Gas Separation Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. Tianbang Main Business

Table 111. Tianbang Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Polymeric Membrane for Hydrogen Gas Separation Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Polymeric Membrane for Hydrogen Gas Separation Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Polymeric Membrane for Hydrogen Gas Separation Sales Market Share by Country/Region (2025)
- Figure 8. Polymeric Membrane for Hydrogen Gas Separation Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type in 2025
- Figure 10. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Membrane Material Family in 2025
- Figure 11. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Feed Gas System in 2025
- Figure 12. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by End Use Industry in 2025
- Figure 13. Polymeric Membrane for Hydrogen Gas Separation in Hydrogen Recovery
- Figure 14. Global Polymeric Membrane for Hydrogen Gas Separation Market: Hydrogen Recovery (2021-2026) & (\$ millions)
- Figure 15. Polymeric Membrane for Hydrogen Gas Separation in Hydrogen Purification
- Figure 16. Global Polymeric Membrane for Hydrogen Gas Separation Market: Hydrogen Purification (2021-2026) & (\$ millions)
- Figure 17. Polymeric Membrane for Hydrogen Gas Separation in Syngas Ratio Adjustment
- Figure 18. Global Polymeric Membrane for Hydrogen Gas Separation Market: Syngas Ratio Adjustment (2021-2026) & (\$ millions)
- Figure 19. Polymeric Membrane for Hydrogen Gas Separation in Others
- Figure 20. Global Polymeric Membrane for Hydrogen Gas Separation Market: Others (2021-2026) & (\$ millions)
- Figure 21. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application in 2025

Figure 22. Global Polymeric Membrane for Hydrogen Gas Separation Revenue Market Share by Player in 2025

Figure 23. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Region (2021-2026)

Figure 24. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size 2021-2026 (\$ millions)

Figure 25. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size 2021-2026 (\$ millions)

Figure 26. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size 2021-2026 (\$ millions)

Figure 27. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size 2021-2026 (\$ millions)

Figure 28. Americas Polymeric Membrane for Hydrogen Gas Separation Value Market Share by Country in 2025

Figure 29. United States Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 30. Canada Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 31. Mexico Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 32. Brazil Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 33. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Region in 2025

Figure 34. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type (2021-2026)

Figure 35. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

Figure 36. China Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 37. Japan Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 38. South Korea Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 39. Southeast Asia Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 40. India Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 41. Australia Polymeric Membrane for Hydrogen Gas Separation Market Size

Growth 2021-2026 (\$ millions)

Figure 42. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Country in 2025

Figure 43. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type (2021-2026)

Figure 44. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

Figure 45. Germany Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 46. France Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 47. UK Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 48. Italy Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 49. Russia Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Region (2021-2026)

Figure 51. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Type (2021-2026)

Figure 52. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share by Application (2021-2026)

Figure 53. Egypt Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 54. South Africa Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 55. Israel Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 56. Turkey Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 57. GCC Countries Polymeric Membrane for Hydrogen Gas Separation Market Size Growth 2021-2026 (\$ millions)

Figure 58. Americas Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 59. APAC Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 60. Europe Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 61. Middle East & Africa Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 62. United States Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 63. Canada Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 64. Mexico Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 65. Brazil Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 66. China Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 67. Japan Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 68. Korea Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 69. Southeast Asia Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 70. India Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 71. Australia Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 72. Germany Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 73. France Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 74. UK Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 75. Italy Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 76. Russia Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 77. Egypt Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 78. South Africa Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 79. Israel Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

Figure 80. Turkey Polymeric Membrane for Hydrogen Gas Separation Market Size

2027-2032 (\$ millions)

Figure 81. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share Forecast by Type (2027-2032)

Figure 82. Global Polymeric Membrane for Hydrogen Gas Separation Market Size Market Share Forecast by Application (2027-2032)

Figure 83. GCC Countries Polymeric Membrane for Hydrogen Gas Separation Market Size 2027-2032 (\$ millions)

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