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Global Bipolar Ion-Exchange Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bipolar Ion-Exchange Membrane market size is expected to reach $ 3572 million by 2032, rising at a market growth of 10.2% CAGR during the forecast period (2026-2032).

In 2025, global Bipolar Ion-Exchange Membrane output reached about 110 million m² and global capacity of around 130 million m². The average price is about USD 16 per m², with gross margins near 35%. A Bipolar Ion-Exchange Membrane (BPM) is a specialized composite ion-exchange membrane consisting of a cation-exchange layer (CEL) and an anion-exchange layer (AEL) joined together. Under an applied electric field, the interface between these two layers catalyzes the dissociation of water into H? and OH? ions, enabling the simultaneous generation of acids and bases without introducing additional salts. Bipolar ion-exchange membranes are widely used in electrodialysis, electrodialysis with bipolar membranes (EDBM), chlor-alkali processes, acid/base recovery, lithium extraction, water treatment, green hydrogen production, CO? capture, and electrochemical synthesis. The supply chain begins with raw materials such as fluorinated polymers, hydrocarbon ion-exchange polymers, reinforcing fabrics, catalysts for the water-splitting interface, solvents, and specialty chemicals supplied by chemical manufacturers. These materials are processed by membrane manufacturers through polymer synthesis, membrane casting or extrusion, lamination of cation- and anion-exchange layers, interface catalyst deposition, and quality testing to produce high-performance bipolar membranes. The finished membranes are then integrated by electrochemical equipment manufacturers and system integrators into electrodialysis stacks, electrolyzers, and industrial separation systems, serving end users across the chemical, water treatment, energy, mining, food & beverage, pharmaceutical, and environmental industries.

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The Bipolar Ion-Exchange Membrane market is experiencing strong growth driven by the global transition toward electrified chemical manufacturing and sustainable industrial processes. Increasing demand for acid and alkali recovery from industrial waste streams, stricter environmental regulations on chemical effluents, and the adoption of electrodialysis with bipolar membranes (EDBM) for resource recycling are accelerating market expansion. The rapid development of the green hydrogen economy, power-to-X technologies, and CO? capture and utilization (CCU) is creating new opportunities for bipolar membranes in electrolysis and carbon conversion systems. In addition, growing investments in lithium extraction and battery material production, high-purity water treatment for the semiconductor and pharmaceutical industries, and energy-efficient desalination technologies are driving demand for high-performance membranes with improved chemical stability, lower electrical resistance, longer service life, and higher current efficiency. Continuous advances in membrane materials, interface catalysts, and large-scale electrochemical process integration are further expanding the commercial adoption of bipolar ion-exchange membranes across the chemical, energy, mining, environmental, and advanced manufacturing sectors.

Report Scope

This report studies the global Bipolar Ion-Exchange Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bipolar Ion-Exchange Membrane 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 Bipolar Ion-Exchange Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bipolar Ion-Exchange Membrane total production and demand, 2021-2032, (K Sqm)

Global Bipolar Ion-Exchange Membrane total production value, 2021-2032, (USD Million)

Global Bipolar Ion-Exchange Membrane production by region & country,

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production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Bipolar Ion-Exchange Membrane consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Bipolar Ion-Exchange Membrane domestic production, consumption, key domestic manufacturers and share

Global Bipolar Ion-Exchange Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Bipolar Ion-Exchange Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Bipolar Ion-Exchange Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Bipolar Ion-Exchange Membrane 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 ASTOM, AGC Group, Fumatech, MEGA a.s., Liaoning Yichen, Hangzhou LANRAN Technology, Beijing Tingrun, Shandong Tianwei Membrane Technology, Hefei ChemJoy Polymer Materials, 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 Bipolar Ion-Exchange Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) and average price (US$/Sqm) 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

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forecast year.

Global Bipolar Ion-Exchange Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Bipolar Ion-Exchange Membrane Market, Segmentation by Type:

Homogeneous Bipolar Membranes

Heterogeneous Bipolar Membranes

Global Bipolar Ion-Exchange Membrane Market, Segmentation by Thickness:

<100 ?m

100–200 ?m

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>200 ?m

Global Bipolar Ion-Exchange Membrane Market, Segmentation by Operating Temperature:

<40°C

40–70°C

>70°C

Global Bipolar Ion-Exchange Membrane Market, Segmentation by Application:

Chlor-Alkali Processing

Energy

Water Treatment

Others

Companies Profiled:

ASTOM

AGC Group

Fumatech

MEGA a.s.

Liaoning Yichen

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Hangzhou LANRAN Technology

Beijing Tingrun

Shandong Tianwei Membrane Technology

Hefei ChemJoy Polymer Materials

Key Questions Answered:

1. How big is the global Bipolar Ion-Exchange Membrane market?
2. What is the demand of the global Bipolar Ion-Exchange Membrane market?
3. What is the year over year growth of the global Bipolar Ion-Exchange Membrane market?
4. What is the production and production value of the global Bipolar Ion-Exchange Membrane market?
5. Who are the key producers in the global Bipolar Ion-Exchange Membrane market?
6. What are the growth factors driving the market demand?

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