

Global Proton Exchange Membranes (PEM) Market Growth 2024-2030

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Abstracts

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Proton Exchange Membranes (PEM) is an important component used in solid polymer electrolyte fuel cells (Proton Exchange Membrane Fuel Cell, referred to as PEMFC). PEMFC is an efficient and clean energy technology widely used in transportation, household power systems and portable equipment. PEM is a type of electrolyte, usually a polymer membrane containing acidic functional groups. It has high electrical conductivity, high proton conductivity and chemical stability, while possessing sufficient mechanical strength and durability to perform well in fuel cells. In PEMFC, the proton exchange membrane plays a key role. It allows protons to be transferred between the anode and the cathode, prompting the oxidation reaction of hydrogen molecules on the anode to generate current and water. This electrochemical process makes PEMFC a clean and efficient energy conversion technology.

The global Proton Exchange Membranes (PEM) market size is projected to grow from US\$ 1485 million in 2024 to US\$ 3083 million in 2030; it is expected to grow at a CAGR of 12.9% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Proton Exchange Membranes (PEM) Industry Forecast" looks at past sales and reviews total world Proton Exchange Membranes (PEM) sales in 2023, providing a comprehensive analysis by region and market sector of projected Proton Exchange Membranes (PEM) sales for 2024 through 2030. With Proton Exchange Membranes (PEM) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Proton Exchange Membranes (PEM) industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Proton Exchange Membranes (PEM) 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 Proton Exchange Membranes (PEM).

Global key players of Proton Exchange Membranes include Gore, Chemours, Asahi Kasei, AGC, Dongyue Group, etc. The top five players hold a share over 71%. Asia-Pacific is the largest market, and has a share about 43%, followed by North America and Europe with share 32% and 20%, separately. In terms of product type, Perfluorosulfonic Acid Membrane is the largest segment, occupied for a share of 61%. In terms of application, Fuel Cell has a share about 76 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of Proton Exchange Membranes (PEM) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Perfluorosulfonic Acid Membrane

Partially Fluorinated Polymers Membrane

Polyaromatic Polymers Membrane

Others

Segmentation by Application:

Fuel Cell

Hydrogen Generation by Water Electrolysis

Chlor-Alkali Industry

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 analysing the company's coverage, product portfolio, its market penetration.

Gore

Chemours

Asahi Kasei

AGC

Dongyue Group

Solvay

FUMATECH BWT GmbH (BWT Group)

Ionomr

BASF

Ballard Power Systems

De Nora

DuPont

3M

Johnson Matthey

Accelera

NedStack

Plug Power

Key Questions Addressed in this Report

What is the 10-year outlook for the global Proton Exchange Membranes (PEM) market?

What factors are driving Proton Exchange Membranes (PEM) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Proton Exchange Membranes (PEM) market opportunities vary by end market size?

How does Proton Exchange Membranes (PEM) break out by Type, by Application?

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