

Global Phosphoric Acid-doped PBI Membrane Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Phosphoric Acid-doped PBI Membrane market size was valued at US\$ 319 million in 2025 and is forecast to a readjusted size of US\$ 1488 million by 2032 with a CAGR of 24.4% during review period.

Phosphoric acid-doped PBI membrane is a proton exchange membrane made by doping polybenzimidazole(PBI) with phosphoric acid. It exhibits high thermal and chemical stability, enables efficient proton conduction, and is mainly used in high-temperature fuel cells and other electrochemical devices. The global market size of phosphoric acid-doped PBI membranes reached USD 310 million in 2025.

Phosphoric acid-doped polybenzimidazole (PBI) membranes are important key materials in energy sectors including proton exchange membrane fuel cells. With growing global demand for clean energy, their application value in energy and electrochemical fields has become increasingly prominent. In terms of market share, fuel cells represent the main application market and account for most of the overall share; owing to their outstanding high-temperature stability and proton conductivity, phosphoric acid-doped PBI membranes are widely used in high-temperature proton exchange membrane fuel cells and their market proportion is expected to keep rising. The sensor and gas separation membrane markets take up a certain share, with increasing demand in moisture sensors, air purification, gas separation and other scenarios, while applications in fuel cell vehicles, portable energy devices and other fields account for a relatively small portion with slowly growing demand. Going forward, such membranes enjoy broad development prospects: technological breakthroughs in fuel cells and the maturity of dispersion and mass production technologies will help

lower production costs and expand application scope to diversified areas such as seawater desalination and environmental pollution treatment, while the rapid expansion of the high-temperature fuel cell market will further drive demand growth. Meanwhile, clean energy support policies worldwide and continuous upgrading of material technologies will provide strong impetus for industrial development, though the sector also faces competition from alternative materials such as fluoride-based membranes and solid oxide fuel cell membranes, requiring continuous optimization in cost and performance. Overall, phosphoric acid-doped PBI membranes boast huge application potential in the clean energy sector, and their market demand and industrial position will keep rising driven by technological progress and policy support.

This report is a detailed and comprehensive analysis for global Phosphoric Acid-doped PBI Membrane market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material 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 Phosphoric Acid-doped PBI Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Phosphoric Acid-doped PBI Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Phosphoric Acid-doped PBI Membrane market size and forecasts, by Material and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Phosphoric Acid-doped PBI Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2021-2026

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 Phosphoric Acid-doped PBI 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 Phosphoric Acid-doped PBI 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 Celanese, BASF, DPS, China Ruilong Technology Co., Ltd., Suzhou Thinkre New Material Co., Ltd., Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd., Wuhan University of Technology New Energy Co., Ltd., Tianjin Jinlun New Materials Technology Co., Ltd., Blue World Technologies, Bosch, etc.

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

Market Segmentation

Phosphoric Acid-doped PBI Membrane market is split by Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material, 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 Material

Pure PBI Membrane

Composite PBI Membrane

Others

Market segment by Doping Method

Uniformly Doped PBI Membrane

Staged Doped PBI Membrane

Others

Market segment by Hydration Behavior

Dry PBI Membrane

Hydrated PBI Membrane

Market segment by Application

High-temperature Fuel Cells

Distributed Energy And Storage Systems

Hydrogen Energy Applications

High-temperature Electrochemical Devices

Others

Major players covered

Celanese

BASF

DPS

China Ruilong Technology Co., Ltd.

Suzhou Thinkre New Material Co., Ltd.

Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd.

Wuhan University of Technology New Energy Co., Ltd.

Tianjin Jinlun New Materials Technology Co., Ltd.

Blue World Technologies

Bosch

Toray

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 Phosphoric Acid-doped PBI Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphoric Acid-doped PBI Membrane, with price, sales quantity, revenue, and global market share of Phosphoric Acid-doped PBI Membrane from 2021 to 2026.

Chapter 3, the Phosphoric Acid-doped PBI Membrane competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphoric Acid-doped PBI Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Material and by Application, with sales market share and growth rate by Material, by Application, from 2021 to 2032.

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 2021 to 2026. and Phosphoric Acid-doped PBI Membrane market forecast, by regions, by Material, and by Application, with sales and revenue, from 2027 to 2032.

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 Phosphoric Acid-doped PBI Membrane.

Chapter 14 and 15, to describe Phosphoric Acid-doped PBI Membrane sales channel, distributors, customers, research findings and conclusion.

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