

Global MBR Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MBR Membrane market size is expected to reach \$ 7320 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global MBR Membrane production reached approximately 158 million square meters, with an average global market price of around US\$30 per square meter.

MBR Membrane (Membrane Bioreactor Membrane) is a core separation component used in membrane bioreactor systems, combining membrane filtration technology with biological treatment processes to achieve efficient pollutant degradation and solid-liquid separation in wastewater treatment. MBR membranes utilize microporous membrane structures to retain activated sludge, suspended solids, colloids, bacteria, and certain macromolecular organic compounds while allowing treated water to pass through the membrane module, producing high-quality effluent. MBR membranes are commonly manufactured in hollow fiber, flat sheet, or tubular configurations, with major materials including polyvinylidene fluoride (PVDF), polyethersulfone (PES), polysulfone (PSF), polyacrylonitrile (PAN), and ceramic materials. Compared with conventional activated sludge treatment, MBR technology provides advantages such as stable effluent quality, compact footprint, high biomass concentration, high automation capability, and improved wastewater reuse potential. It is widely used in municipal wastewater treatment, industrial wastewater treatment, industrial water recycling, food and beverage, pharmaceuticals, chemicals, electronics manufacturing, and advanced reclaimed water applications. Driven by increasing water scarcity, stricter environmental standards, and wastewater resource recovery demand, MBR membranes are developing toward higher flux, lower fouling, reduced energy consumption, longer service life, and intelligent operation.

The upstream supply chain of MBR membranes includes membrane materials, polymer resins, membrane fabrication equipment, module auxiliary components, aeration system components, and chemical cleaning materials. Materials such as PVDF, PES, and PSF determine membrane mechanical strength, fouling resistance, chemical stability, and filtration performance, while surface modification materials, reinforcement materials, and potting materials influence membrane lifetime and operational stability. Representative suppliers include Arkema, Solvay, BASF, SABIC, Evonik, Mitsubishi Chemical, Toray, and Asahi Kasei. Major midstream manufacturers and water-treatment solution providers include DuPont, Toray Industries, SUEZ Water Technologies & Solutions, Veolia Water Technologies, Mitsubishi Chemical, OriginWater, Motimo, Vontron Technology, and JiuWu Hi-Tech. Downstream applications include municipal wastewater treatment, industrial wastewater treatment, semiconductor manufacturing, food and beverage, pharmaceuticals, chemicals, new energy, power generation, and industrial water-treatment projects. Representative users include water utilities, large manufacturers, semiconductor companies, battery producers, and environmental engineering companies.

The MBR membrane market is currently experiencing continuous development, supported by growing wastewater treatment demand, stricter environmental regulations, and increasing wastewater resource recovery requirements. Compared with conventional activated sludge processes, MBR membranes provide advantages including high-quality effluent, compact footprint, high automation, and suitability for advanced water reuse applications. As a result, MBR technology is expanding in municipal wastewater upgrades, industrial wastewater treatment, and reclaimed water applications. Future trends include development of advanced anti-fouling membrane materials, lower operating energy consumption, higher membrane flux, longer membrane lifetime, intelligent control systems, and integration with advanced oxidation, nanofiltration, and reverse osmosis technologies. Key market drivers include water scarcity, environmental policy development, industrial water-saving requirements, expansion of new energy and manufacturing industries, municipal wastewater infrastructure upgrades, and industrial recycling demand. Challenges include membrane fouling, replacement costs, high operation and maintenance requirements, significant initial investment, and intensified market competition. Overall, MBR membranes remain an important technology for advanced wastewater treatment and resource recovery and are expected to maintain strong application value in high-standard water treatment and industrial environmental protection sectors.

This report studies the global MBR Membrane production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MBR Membrane total production and demand, 2021-2032, (K Sqm)
Global MBR Membrane total production value, 2021-2032, (USD Million)
Global MBR Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)
Global MBR Membrane consumption by region & country, CAGR, 2021-2032 & (K Sqm)
U.S. VS China: MBR Membrane domestic production, consumption, key domestic manufacturers and share
Global MBR Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)
Global MBR Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)
Global MBR Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global MBR 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 GE, Xylem, DuPont, Toray, SUEZ, Asahi Kasei Chemical, Kubota, Koch Membrane, Mitsubishi, Hydranautics, 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 MBR 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\$/Sq m)

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 forecast year.

Global MBR Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MBR Membrane Market, Segmentation by Type:

Tubular Membrane

Hollow Fiber Membrane

Flat Membrane

Others

Global MBR Membrane Market, Segmentation by Material:

PVDF

PES

PSF

PAN

Ceramics

Global MBR Membrane Market, Segmentation by Membrane Pore Size:

0.01?m-0.05?m

0.05?m-0.1?m

Others

Global MBR Membrane Market, Segmentation by Application:

Municipal Wastewater

Industrial Wastewater

Others

Companies Profiled:

GE

Xylem

DuPont

Toray

SUEZ

Asahi Kasei Chemical

Kubota

Koch Membrane

Mitsubishi

Hydranautics

Toyobo

Pentair X-Flow

Zena Membranes

Veolia

Berghof Membranes

MANN+HUMMEL

HUBER SE

3M

Alfa Laval

Porvair

Spintek Filtration

Triqua

Smith & Loveless

Membrane Solutions

CITIC Envirotech

OriginWater Technology

Motimo

Litree

Keensen Technology

JiuWu Hi-Tech

Vontron

Key Questions Answered:

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

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