

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

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Abstracts

The global Flat Sheet MBR Membrane market size is expected to reach \$ 677 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global Flat Sheet MBR Membrane production reached approximately 23.02 million square meters, with an average global market price of around US\$18.2 per square meter.

Flat Sheet MBR Membrane is a flat-sheet membrane separation component used in membrane bioreactor (MBR) systems, integrating flat membrane sheets within supporting frames and combining membrane filtration with biological treatment processes for wastewater treatment and solid-liquid separation. It retains activated sludge, suspended solids, colloids, bacteria, and macromolecular organic pollutants through the microporous membrane structure while allowing treated water to pass through, providing stable and high-quality effluent. Flat sheet MBR membranes generally consist of membrane support layers, selective separation layers, flow channels, membrane frames, and sealing structures. Common materials include polyvinylidene fluoride (PVDF), polyethersulfone (PES), polysulfone (PSF), and ceramic materials. Compared with hollow fiber MBR membranes, flat sheet MBR membranes offer advantages such as higher mechanical strength, better fouling resistance, no fiber breakage risk, and stable long-term operation, making them suitable for applications with high sludge concentration, high pollutant loads, and strict reliability requirements. Flat sheet MBR membranes are widely used in municipal wastewater treatment, industrial wastewater treatment, food and beverage processing, pharmaceuticals, chemicals, electronics manufacturing, landfill leachate treatment, and industrial water reuse. Driven by stricter environmental standards and increasing wastewater resource recovery demand, flat sheet MBR membranes are developing toward higher flux, lower

energy consumption, improved fouling resistance, modular design, and intelligent operation.

The upstream supply chain of flat sheet MBR membranes includes membrane materials, polymer resins, reinforced support materials, membrane frame materials, sealing adhesives, manufacturing equipment, and chemical cleaning materials. Materials such as PVDF and PES determine filtration performance, chemical resistance, and membrane lifetime, while reinforcement materials, support structures, and sealing materials influence mechanical stability and operational reliability. Representative suppliers include Arkema, Solvay, BASF, SABIC, Evonik, Toray, Mitsubishi Chemical, and Asahi Kasei. Major midstream manufacturers and water-treatment solution providers include Toray Industries, SUEZ Water Technologies & Solutions, Veolia Water Technologies, Kubota, Mitsubishi Chemical Aqua Solutions, OriginWater, Motimo, and JiuWu Hi-Tech. Downstream applications include municipal wastewater treatment, industrial wastewater treatment, food and beverage, pharmaceuticals, chemicals, semiconductor manufacturing, new energy, power generation, and industrial water recycling. Representative users include water utilities, industrial manufacturers, semiconductor companies, battery producers, and environmental engineering companies.

The flat sheet MBR membrane market is experiencing steady growth, supported by stricter wastewater treatment standards, increasing industrial wastewater management requirements, and growing demand for water recycling. Compared with hollow fiber MBR membranes, flat sheet MBR membranes provide advantages such as higher mechanical strength, better fouling resistance, stable operation, and easier maintenance, giving them competitive advantages in industrial wastewater, high-concentration wastewater, and applications requiring long-term operational reliability. Future market trends include development of high-flux and low-fouling membrane materials, optimization of surface modification technologies, reduction of operating energy consumption, improvement of modular design, and integration with intelligent monitoring systems. Key growth drivers include environmental regulations, industrial water-saving demand, water scarcity, wastewater reuse requirements, new energy and manufacturing development, and industrial green transformation. Challenges include relatively high membrane costs, significant system investment, demanding operation and maintenance requirements, slower adoption in some applications, and competition from alternative membrane technologies. Overall, flat sheet MBR membranes are expected to maintain strong development potential in industrial wastewater treatment, advanced water reuse, and complex water management applications.

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

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

Highlights and key features of the study

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

This report profiles key players in the global Flat Sheet 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 Flat Sheet 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 Flat Sheet MBR Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flat Sheet MBR Membrane Market, Segmentation by Type:

Single Flat Sheet MBR Membrane

Composite Flat Sheet MBR Membrane

Reinforced Flat Sheet MBR Membrane

Global Flat Sheet MBR Membrane Market, Segmentation by Material:

PVDF

PES

PSF

PAN

Ceramics

Global Flat Sheet MBR Membrane Market, Segmentation by Membrane Pore Size:

0.01?m-0.05?m

0.05?m-0.1?m

Others

Global Flat Sheet MBR Membrane Market, Segmentation by Application:

Industrial Waste

City ??Sewage

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

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