

Global PVDF Hollow Fiber Ultrafiltration Membrane Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PVDF Hollow Fiber Ultrafiltration Membrane Module market size is expected to reach \$ 393 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

In 2025, global PVDF Hollow Fiber Ultrafiltration Membrane Module production reached approximately 166k units, with an average global market price of around US\$1800 per unit.

PVDF Hollow Fiber Ultrafiltration Membrane Module is a standardized membrane separation module built around polyvinylidene fluoride hollow fiber UF membranes and integrated with a module housing, end caps, potting resin, permeate collection structure, and sealing system. Driven by pressure difference, water or process liquid passes through the PVDF membrane wall while suspended solids, colloids, bacteria, some viruses, macromolecular organics, and turbidity-causing particles are retained. PVDF offers strong mechanical strength, oxidation resistance, chemical cleaning tolerance, and fouling resistance, making PVDF hollow fiber UF modules widely used in municipal water supply, wastewater reuse, industrial water treatment, seawater desalination pretreatment, ultrapure water pretreatment, power generation, petrochemicals, food and beverage, and MBR systems. Compared with PES, PS, and PP materials, PVDF modules usually provide better long-term stability, backwashing tolerance, chlorine-cleaning resistance, and service life.

The upstream supply chain of PVDF hollow fiber UF modules includes PVDF resin, hydrophilic modifiers, pore-forming agents, solvents such as NMP, DMAc, and DMF, support materials, module housings, end caps, potting compounds, seals, and

equipment for hollow fiber spinning, coagulation, washing, drying, and module assembly. Representative suppliers include Arkema, Solvay, Kureha, Sinochem Lantian, Dongyue Group, BASF, Evonik, Dow, and Covestro. Midstream manufacturers produce PVDF hollow fiber membranes, UF modules, and systems, including DuPont, Toray, Asahi Kasei, Pentair, Pall, Hydranautics, Veolia Water Technologies, OriginWater, Litree, MOTIMO, Vontron. Downstream applications include municipal water supply, wastewater reuse, industrial water treatment, seawater desalination pretreatment, semiconductors, power generation, petrochemicals, food and beverage, and biopharmaceuticals. Representative users include Veolia, SUEZ, Xylem, TSMC, Samsung Electronics, Intel, Shell, Sinopec, PetroChina, Coca-Cola, Nestl?, and Pfizer.

The PVDF hollow fiber ultrafiltration membrane module market is experiencing steady growth and expanding into higher-end applications. Municipal water supply, wastewater reuse, industrial water treatment, seawater desalination pretreatment, and ultrapure water production are the main demand sources. Key trends include high-strength PVDF fibers, hydrophilic anti-fouling modification, low-pressure high-flux operation, large-area modules, longer service life, intelligent O&M, and increasing integration with RO/NF systems. Growth drivers include water scarcity, wastewater reuse, industrial water conservation, stricter discharge standards, growing desalination projects, and expansion of semiconductors, lithium batteries, and advanced manufacturing. Main challenges include membrane fouling, cleaning and maintenance costs, price competition in low-end domestic products, PVDF resin price volatility, long qualification cycles for high-end applications, and performance differences under varying water quality. Overall, PVDF hollow fiber UF modules remain the mainstream product with strong scale and engineering advantages in the UF module market.

This report studies the global PVDF Hollow Fiber Ultrafiltration Membrane Module production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PVDF Hollow Fiber Ultrafiltration Membrane Module total production and

demand, 2021-2032, (K Units)

Global PVDF Hollow Fiber Ultrafiltration Membrane Module total production value, 2021-2032, (USD Million)

Global PVDF Hollow Fiber Ultrafiltration Membrane Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PVDF Hollow Fiber Ultrafiltration Membrane Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PVDF Hollow Fiber Ultrafiltration Membrane Module domestic production, consumption, key domestic manufacturers and share

Global PVDF Hollow Fiber Ultrafiltration Membrane Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PVDF Hollow Fiber Ultrafiltration Membrane Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PVDF Hollow Fiber Ultrafiltration Membrane Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PVDF Hollow Fiber Ultrafiltration Membrane Module 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 Kovalus Separation Solutions, Asahi Kasei, Veolia, DuPont, Toray, 3M, Mitsubishi Chemical, Nitto Denko, Synder Filtration, Mann+Hummel, 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 PVDF Hollow Fiber Ultrafiltration Membrane Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 PVDF Hollow Fiber Ultrafiltration Membrane Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PVDF Hollow Fiber Ultrafiltration Membrane Module Market, Segmentation by Type:

Pressure-type

Submerged

Global PVDF Hollow Fiber Ultrafiltration Membrane Module Market, Segmentation by Processes:

NIPS

TIPS

Global PVDF Hollow Fiber Ultrafiltration Membrane Module Market, Segmentation by Pore Diameter:

0.01?0.03 ?m

0.03?0.05 ?m

0.05?0.10 ?m

Others

Global PVDF Hollow Fiber Ultrafiltration Membrane Module Market, Segmentation by Application:

Municipal

Food and Beverage

Petroleum Industry

Machinery Industry

Stock Farm

Others

Companies Profiled:

Kovalus Separation Solutions

Asahi Kasei

Veolia

DuPont

Toray

3M

Mitsubishi Chemical

Nitto Denko

Synder Filtration

Mann+Hummel

Pentair

QUA group

SUEZ

Applied Membranes

EuroTe

Dow

GE

Supratec

Pall

Hydranautics

Membrane Solutions

Canpure

Scinor

MOTIMO

CITIC Envirotech

Origin Water

Vontron

Hinada

Litree

Key Questions Answered:

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

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