

PTFE Membrane Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F Segmented By Membrane Nature (Hydrophobic & Hydrophilic), By Application (Industrial Filtration, Water Treatment, Textiles, Pharmaceutical, Other Applications), By Region

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Abstracts

Global PTFE Membrane Market is expected to grow at a robust pace during the forecast period of 2024-2028.

Polytetrafluoroethylene (PTFE) membrane filters are made of polytetrafluoroethylene that is expanded and stretched to form a microporous membrane. PTFE membrane filters are laminated to various cloths or papers on substrates through a special process, making them a new filter material with small and uniform pore sizes and large porosity. It can filter out all dust particles, including bacteria, while maintaining air circulation., Polytetrafluoroethylene (PTFE) membrane is an inlet membrane as well as a hydrophobic membrane filter which is when treated with ethanol or isopropanol becomes a hydrophilic membrane filter. Hydrophobic membranes do not wet spontaneously whereas hydrophilic membranes may wet spontaneously.

Polytetrafluoroethylene (PTFE) membranes are known to be resistant to high temperatures, strong acids, strong bases, organic solvents, and oxidizing agents. PTFE membrane and hydrophilic PTFE membrane filters, both are chemically compatible and resistant to most chemical solvents. PTFE membranes are chemically stable and inert, suitable for chemically corrosive organic solvents, aqueous solutions and gases, and resistant to most acids, alkalis and solutions.

Global Demand is Expected to Drive the Global PTFE Membrane Market

In the automotive industry, PTFE diaphragm is a fluoropolymer composed of fluorine and used as a breather diaphragm in automotive system applications that can provide reliable protection from dirt, dust, water, and vehicle fluids. For example, according to the European Automobile Manufacturers Association (ACEA), the automotive industry is projected to grow in 2021, with around 79.1 million vehicles produced worldwide, an increase of 1.3% compared to 2020. According to the Organisation Internationale des Constructeurs d'Automobiles (OICA), in the United States, automobile production increased from 62,39,401 units in 2020 to 68,57,182 units in 2021. Furthermore, in Austria, car production increased from 86,300 in 2020 to 92,000 in 2021. It is estimated that the demand for PTFE diaphragms in the automotive industry will increase in the next few years as the production volume of automobiles increases. This is expected to drive the growth of the PTFE membrane industry.

Due to its high resistance to fire, extreme temperatures, and other adverse environmental conditions, PTFE membranes are increasingly used in uniform manufacturing used in military, firefighting, and other similar areas. Increased demand from the sports and leisure industry has increased the demand for his PTFE membranes used in the manufacture of clothing and footwear. Increasing industrialization has increased the need for proper ventilation, increasing opportunities for the PTFE membrane market. With the help of PTFE membranes, pollutant emissions are reduced and maintenance is low. This helps in complying with the regulations implemented by regulatory bodies and promotes market growth. A factor limiting the growth of the PTFE membrane market is the availability of other cheaper alternatives in the market.

Latest Market Trends fueling the market growth.

In January 2020, Cytiva opened a new facility in Glen, Switzerland to manufacture single-use kits from PTFE membranes. This facility is expected to have 250 employees. The facility was announced in 2020.

In 2022, Merck announced that it will expand its membrane and filtration manufacturing capacity in Ireland. The company will invest approximately USD 466.07 million to expand its membrane production capacity in Carrigtwohill, Cork, Ireland, and build a new manufacturing facility at Blarney Business Park.

In November 2019, W.L. Gore launched Gore Low Drag Filter Bags, which are

made from a PTFE membrane used in the pulse-jet carbon black manufacturing process. This allows us to provide a sustainable and cost-effective ownership solution for our Reverse Air Carbon Black operations.

Market Segmentation

The Global PTFE Membrane Market is segmented into Membrane Nature and Application. Based on membrane nature, the market is further bifurcated into hydrophobic & hydrophilic. Based on application, the market is further divided into industrial filtration, water treatment, textiles, pharmaceutical, and other applications.

Market Players

The main market players in the Global PTFE Membrane Market are Hyundai Micro Co. Ltd, Pall Corporation, Merck Millipore Co., GVS S.p.A., Donaldson Company Inc., Sartorius AG, Saint-Gobain Composite Solutions, Pall Corporation, Markel Corporation, W. L. Gore & Associates Inc.

Report Scope:

In this report, Global PTFE Membrane Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global PTFE Membrane Market, By Membrane Nature:

Hydrophobic

Hydrophilic

Global PTFE Membrane Market, By Application:

Industrial Filtration

Water Treatment

Textiles

Pharmaceutical

Other Applications

Global PTFE Membrane Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

India

Japan

South Korea

Australia

China

Europe

Germany

United Kingdom

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East

Saudi Arabia

South Africa

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global PTFE Membrane Market.

Available Customizations:

Global PTFE Membrane Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to ten).

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