

Global PVDF Membrane Market Report and Forecast 2023-2028

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Report description:

Global PVDF Membrane Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global PVDF membrane market reached a value of USD 794.58 million in 2022. Aided by the increasing demand for superior filtration solutions across multiple industries and the broadening applications of PVDF membranes, the market is projected to further grow at a CAGR of 6.51% between 2023 and 2028 to reach a value of USD 1155.72 million by 2028.

PVDF (Polyvinylidene fluoride) is a high-purity thermoplastic polymer known for its robust chemical resistance and thermal stability. PVDF membranes, derived from this polymer, are extensively used in filtration processes due to their high durability, chemical compatibility, and mechanical strength. Their excellent hydrophobicity makes them invaluable in applications like sample preparation, protein separation, and sterilisation procedures in industries such as pharmaceuticals, biotechnology, food and beverage, and wastewater treatment.

The escalating global demand for efficient filtration solutions is driving the PVDF membrane market growth. With an upsurge in industries' reliance on purified water and clean environments, the need for effective filtration materials has grown significantly. PVDF membranes, with their superior chemical resistance and filtration capabilities, have become an increasingly preferred choice, leading to a surge in market demand.

Furthermore, the burgeoning trend of miniaturisation in the biotechnology and pharmaceutical industries has led to an increase in the PVDF membrane market demand. They are vital in the manufacturing of microfiltration and ultrafiltration systems, which are becoming increasingly prevalent in lab-scale as well as industrial-scale applications.

The versatility of PVDF membranes is also a significant factor propelling the PVDF membrane market development. These membranes can be used in both hydrophilic and hydrophobic applications, increasing their usability across various industries. In the pharmaceutical and biotech sectors, PVDF membranes are used in drug delivery systems and for filtration in protein separation and purification. Similarly, in the food and beverage sector, they aid in the filtration of wine, beer, and other liquids to maintain product quality and safety.

Moreover, the growth in the wastewater treatment sector has resulted in an expanded scope for PVDF membranes. With increasing environmental concerns and stricter regulations for water discharge, the need for effective water treatment solutions is

higher than ever. Furthermore, the heightened deployment of these membranes in wastewater treatment plants, owing to their high mechanical strength and chemical resistance, is garnering the PVDF membrane market growth.

Market Segmentation

The market can be divided based on type, technology, application, end use, and region.

Market Breakup by Type

-□Hydrophobic

-□Hydrophilic

Market Breakup by technology

-□Microfiltration

-□Ultrafiltration

-□Nanofiltration

-□Others

Market Breakup by Application

-□Filtration

-□Blotting

-□Separation

-□Purification

-□Others

Market Breakup by End Use

-□Biopharmaceutical

-□Pharmaceutical

-□Food and Beverage

-□Others

Market Breakup by Region

-□North America

-□Europe

-□Asia Pacific

-□Latin America

-□Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the global PVDF membrane companies. Some of the major key players explored in the report by Expert Market Research are as follows:

-□Arkema Group

-□Cobetter Filtration Equipment Co. Ltd

-□Pall Corporation

-□Citic Envirotech Ltd

-□GVS S.p.A

-□Bio-Rad Laboratories, Inc.

-□Thermo Fisher Scientific Inc.

-□Membrane Solutions, LLC

-□Toray Industries, Inc.

-□Synder Filtration Inc.

-□Others

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Table of Contents:

- 1 Preface
- 2 Report Coverage - Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Market Snapshot
 - 6.1 Global
 - 6.2 Regional
- 7 Opportunities and Challenges in the Market
- 8 Global PVDF Membrane Market Analysis
 - 8.1 Key Industry Highlights
 - 8.2 Global PVDF Membrane Historical Market (2018-2022)
 - 8.3 Global PVDF Membrane Market Forecast (2023-2028)
 - 8.4 Global PVDF Membrane Market by Type
 - 8.4.1 Hydrophobic
 - 8.4.1.1 Historical Trend (2018-2022)
 - 8.4.1.2 Forecast Trend (2023-2028)
 - 8.4.2 Hydrophilic
 - 8.4.2.1 Historical Trend (2018-2022)
 - 8.4.2.2 Forecast Trend (2023-2028)
 - 8.5 Global PVDF Membrane Market by Technology
 - 8.5.1 Microfiltration
 - 8.5.1.1 Historical Trend (2018-2022)
 - 8.5.1.2 Forecast Trend (2023-2028)
 - 8.5.2 Ultrafiltration
 - 8.5.2.1 Historical Trend (2018-2022)
 - 8.5.2.2 Forecast Trend (2023-2028)

8.5.3 Nanofiltration

8.5.3.1 Historical Trend (2018-2022)

8.5.3.2 Forecast Trend (2023-2028)

8.5.4 Others

8.6 Global PVDF Membrane Market by Application

8.6.1 Filtration

8.6.1.1 Historical Trend (2018-2022)

8.6.1.2 Forecast Trend (2023-2028)

8.6.2 Blotting

8.6.2.1 Historical Trend (2018-2022)

8.6.2.2 Forecast Trend (2023-2028)

8.6.3 Separation

8.6.3.1 Historical Trend (2018-2022)

8.6.3.2 Forecast Trend (2023-2028)

8.6.4 Purification

8.6.4.1 Historical Trend (2018-2022)

8.6.4.2 Forecast Trend (2023-2028)

8.6.5 Others

8.7 Global PVDF Membrane Market by End Use

8.7.1 Biopharmaceutical

8.7.1.1 Historical Trend (2018-2022)

8.7.1.2 Forecast Trend (2023-2028)

8.7.2 Pharmaceutical

8.7.2.1 Historical Trend (2018-2022)

8.7.2.2 Forecast Trend (2023-2028)

8.7.3 Food and Beverage

8.7.3.1 Historical Trend (2018-2022)

8.7.3.2 Forecast Trend (2023-2028)

8.7.4 Others

8.8 Global PVDF Membrane Market by Region

8.8.1 North America

8.8.1.1 Historical Trend (2018-2022)

8.8.1.2 Forecast Trend (2023-2028)

8.8.2 Europe

8.8.2.1 Historical Trend (2018-2022)

8.8.2.2 Forecast Trend (2023-2028)

8.8.3 Asia Pacific

8.8.3.1 Historical Trend (2018-2022)

8.8.3.2 Forecast Trend (2023-2028)

8.8.4 Latin America

8.8.4.1 Historical Trend (2018-2022)

8.8.4.2 Forecast Trend (2023-2028)

8.8.5 Middle East and Africa

8.8.5.1 Historical Trend (2018-2022)

8.8.5.2 Forecast Trend (2023-2028)

9 North America PVDF Membrane Market Analysis

9.1 United States of America

9.1.1 Historical Trend (2018-2022)

9.1.2 Forecast Trend (2023-2028)

9.2 Canada

9.2.1 Historical Trend (2018-2022)

9.2.2 Forecast Trend (2023-2028)

10 Europe PVDF Membrane Market Analysis

10.1 United Kingdom

10.1.1 Historical Trend (2018-2022)

10.1.2 Forecast Trend (2023-2028)

10.2 Germany

10.2.1 Historical Trend (2018-2022)

10.2.2 Forecast Trend (2023-2028)

10.3 France

10.3.1 Historical Trend (2018-2022)

10.3.2 Forecast Trend (2023-2028)

10.4 Italy

10.4.1 Historical Trend (2018-2022)

10.4.2 Forecast Trend (2023-2028)

10.5 Others

11 Asia Pacific PVDF Membrane Market Analysis

11.1 China

11.1.1 Historical Trend (2018-2022)

11.1.2 Forecast Trend (2023-2028)

11.2 Japan

11.2.1 Historical Trend (2018-2022)

11.2.2 Forecast Trend (2023-2028)

11.3 India

11.3.1 Historical Trend (2018-2022)

11.3.2 Forecast Trend (2023-2028)

11.4 ASEAN

11.4.1 Historical Trend (2018-2022)

11.4.2 Forecast Trend (2023-2028)

11.5 Australia

11.5.1 Historical Trend (2018-2022)

11.5.2 Forecast Trend (2023-2028)

11.6 Others

12 Latin America PVDF Membrane Market Analysis

12.1 Brazil

12.1.1 Historical Trend (2018-2022)

12.1.2 Forecast Trend (2023-2028)

12.2 Argentina

12.2.1 Historical Trend (2018-2022)

12.2.2 Forecast Trend (2023-2028)

12.3 Mexico

12.3.1 Historical Trend (2018-2022)

12.3.2 Forecast Trend (2023-2028)

12.4 Others

13 Middle East and Africa PVDF Membrane Market Analysis

13.1 Saudi Arabia

13.1.1 Historical Trend (2018-2022)

13.1.2 Forecast Trend (2023-2028)

13.2 United Arab Emirates

13.2.1 Historical Trend (2018-2022)

13.2.2 Forecast Trend (2023-2028)

13.3 Nigeria

13.3.1 Historical Trend (2018-2022)

13.3.2 Forecast Trend (2023-2028)

13.4 South Africa

13.4.1 Historical Trend (2018-2022)

13.4.2 Forecast Trend (2023-2028)

13.5 Others

14 Market Dynamics

14.1 SWOT Analysis

14.1.1 Strengths

14.1.2 Weaknesses

14.1.3 Opportunities

14.1.4 Threats

14.2 Porter's Five Forces Analysis

14.2.1 Supplier's Power

14.2.2 Buyer's Power

14.2.3 Threat of New Entrants

14.2.4 Degree of Rivalry

14.2.5 Threat of Substitutes

14.3 Key Indicators for Demand

14.4 Key Indicators for Price

15 Competitive Landscape

15.1 Market Structure

15.2 Company Profiles

15.2.1 Arkema Group

15.2.1.1 Company Overview

15.2.1.2 Product Portfolio

15.2.1.3 Demographic Reach and Achievements

15.2.1.4 Certifications

15.2.2 Cobetter Filtration Equipment Co. Ltd

15.2.2.1 Company Overview

15.2.2.2 Product Portfolio

15.2.2.3 Demographic Reach and Achievements

15.2.2.4 Certifications

15.2.3 Pall Corporation

15.2.3.1 Company Overview

15.2.3.2 Product Portfolio

15.2.3.3 Demographic Reach and Achievements

15.2.3.4 Certifications

15.2.4 Citic Envirotech Ltd

- 15.2.4.1 Company Overview
- 15.2.4.2 Product Portfolio
- 15.2.4.3 Demographic Reach and Achievements
- 15.2.4.4 Certifications

15.2.5 GVS S.p.A

- 15.2.5.1 Company Overview
- 15.2.5.2 Product Portfolio
- 15.2.5.3 Demographic Reach and Achievements
- 15.2.5.4 Certifications

15.2.6 Bio-Rad Laboratories, Inc.

- 15.2.6.1 Company Overview
- 15.2.6.2 Product Portfolio
- 15.2.6.3 Demographic Reach and Achievements
- 15.2.6.4 Certifications

15.2.7 Thermo Fisher Scientific Inc.

- 15.2.7.1 Company Overview
- 15.2.7.2 Product Portfolio
- 15.2.7.3 Demographic Reach and Achievements
- 15.2.7.4 Certifications

15.2.8 Membrane Solutions, LLC

- 15.2.8.1 Company Overview
- 15.2.8.2 Product Portfolio
- 15.2.8.3 Demographic Reach and Achievements
- 15.2.8.4 Certifications

15.2.9 Toray Industries, Inc.

- 15.2.9.1 Company Overview
- 15.2.9.2 Product Portfolio
- 15.2.9.3 Demographic Reach and Achievements
- 15.2.9.4 Certifications

15.2.10 Synder Filtration Inc.

- 15.2.10.1 Company Overview
- 15.2.10.2 Product Portfolio
- 15.2.10.3 Demographic Reach and Achievements
- 15.2.10.4 Certifications

15.2.11 Others

16 Key Trends and Developments in the Market

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