

# Fluoropolymer Materials: Technologies and Global Markets

<https://marketpublishers.com/r/F875C8C8EE89EN.html>

Date: December 2023

Pages: 178

Price: US\$ 5,500.00 (Single User License)

ID: F875C8C8EE89EN

## Abstracts

### Report Scope:

The report provides an overview of the global market for fluoropolymer materials and analyzes key market trends. The base year considered for analysis is 2022, while the market estimates and forecasts are given for 2023 to 2028. The market estimates are only provided in terms of revenue (USD million) and volume (kilotons) at the global level, whereas for the remaining segments, only volume estimation is provided.

The market is segmented based on resin type, end-user industry, and region. Within resin type, PTFE, PVDF, FEP, ETFE, other fluoropolymers, and fluoroelastomers are considered. Other fluoropolymers include polyvinyl fluoride (PVF), polychlorotrifluoroethylene (PCTFE), perfluoroalkoxy alkanes (PFA), ethylene-chlorotrifluoroethylene (ECTFE), sulfonated tetrafluoroethylene (PFSA), amorphous fluoropolymers (AF), poly(TFE-CO-HFP-CO-VDF) (THV) and fluoroplastic foam resin (FFR). Within the end-user segmentation, industrial, electrical and electronics, transportation, building and construction, and other markets are considered. Other markets include cookware and bakeware product coatings, medical devices, and fabric protection.

The report study provides a cross-segmentation analysis at the global level of each resin type within end-user and regional segments. This enables the reader to attain a better understanding of the relative penetration of each resin within every end-user as well as regional segment.

The report also analyzes fluoropolymer technology developments, industry structure, and market dynamics. Profiles of the leading fluoropolymer resin companies and

processors describe company products, markets, geographic focus, market shares, and recent corporate developments. The impact of COVID-19 and the Russia-Ukraine war conflict has also been considered while deriving market estimates.

#### Report Includes:

38 data tables and 56 additional tables

An up-to-date overview and industry analysis of the global markets for fluoropolymer materials (all the commercially available grades actively utilized and consumed worldwide)

Analyses of the global market trends, with historical market revenue data (sales figures) for 2022, estimates for 2023, forecasts for 2027, and projections of compound annual growth rates (CAGRs) through 2028

Estimation of the actual market size and growth forecast for fluoropolymers markets both in revenue/value (USD millions) and consumption/volumetric (Kilo tons) terms, and corresponding market share analysis based on resin type, end-use application, and region

In-depth information (facts and figures) concerning the major factors influencing the progress of this market (drivers, restraints, opportunities, and industry-specific challenges) with respect to specific growth trends, upcoming prospects, and contributions to the overall market

Analysis of the market growth opportunities with a holistic review of Porter's five forces analysis and PESTLE analysis considering both micro%li%and macro environmental factors prevailing in the industry

Understanding of ESG perspectives on the worldwide market for fluoropolymers, with emphasis on the impact of ESG factors on performance, ratings and matrices; consumer attitudes; and ESG followed practices

A relevant patent analysis with significant allotments of the patent data featuring fluoropolymers

Identification of the major stakeholders, and analysis of their company competitive landscape based on recent developments, segmental revenues, and

operational integration

Descriptive company profiles of the leading market players, including Arkema, The Chemours Co, Daikin Industries Ltd., Kureha Corp., Saint Gobain, and Solvay

## Contents

### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
What's New in This Update?  
Methodology  
Information Sources  
Geographic Breakdown  
Segmentation Breakdown

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

Market Outlook  
Market Summary

### **CHAPTER 3 MARKET OVERVIEW**

Definition of the Fluoropolymer Industry  
Industry Background  
The Fluoropolymer Family  
Homopolymers  
Copolymers  
Fluoroelastomers  
Raw Material Analysis

### **CHAPTER 4 MARKET DYNAMICS**

Market Dynamics  
Drivers  
Challenges  
Restraint  
Opportunity  
Supply Chain Analysis  
Impact of COVID-19 and Russia-Ukraine war  
Pricing Analysis

## **CHAPTER 5 EMERGING TECHNOLOGIES AND DEVELOPMENTS**

Emerging Technologies and Key Developments

ProPApp process for PTFE production

Developments in Flexible PVDF-based Piezoelectric Polymer Devices for Energy Harvesting Systems

Novel Technology to Blend PVDF with Rubber

Mineralization Aids the Chemical Recycling of Fluoropolymers.

Significant Product Development by Dongyue Group

Fluoropolymers Without the Use of Fluorosurfactants.

Patent Analysis

## **CHAPTER 6 MARKET ANALYSIS BY TYPE OF RESIN**

Overview

Polytetrafluoroethylene (PTFE)

Applications

Market Size and Forecast

Polyvinylidene Fluoride (PVDF)

Applications

Market Size and Forecast

Fluorinated Ethylene Propylene (FEP)

Applications

Market Size and Forecast

Ethylene Tetrafluoroethylene (ETFE)

Applications

Market Size and Forecast

Other Fluoropolymers

Fluoroelastomers

Applications

Market Size and Forecast

## **CHAPTER 7 MARKET BREAKDOWN BY END-USE INDUSTRY**

Overview

Industrial

Applications

Market Size and Forecast

Electrical and Electronics

Applications

Role of Fluoropolymers in Propelling the Energy Transition

Market Size and Forecast

Transportation

Role of Lithium-ion Batteries in Creating a Demand Pull for Fluoropolymers

Transportation Applications of Fluoropolymers

Market Size and Forecast

Building and Construction

Applications

Market Size and Forecast

Other Markets

Applications

Cookware and Bakeware Markets

Medical Markets

Market Size and Forecast

## **CHAPTER 8 MARKET ANALYSIS BY REGION**

Overview

North America

U.S.

Canada

Europe

Germany

Italy

Rest of Europe

Asia-Pacific (APAC)

China

India

Japan

Rest of Asia Pacific

Rest of the World (RoW)

## **CHAPTER 9 ESG DEVELOPMENT**

Importance of ESG in Fluoropolymers Market

ESG Ratings and Metrics

ESG Practices in the Fluoropolymer Materials Market

Current Status of ESG in the Fluoropolymers Market

Consumer Attitudes towards ESG in the Fluoropolymers Market

Future of ESG

Case Study: Solvay

Environmental

Social

Governance

## **CHAPTER 10 COMPETITIVE LANDSCAPE**

Competitive Scenario Analysis

Latest Development Strategies

## **CHAPTER 11 COMPANY PROFILES**

### **3M CO.**

AGC CHEMICALS AMERICAS INC.

ARKEMA

CHENGUANG RESEARCH INSTITUTE OF CHEMICAL INDUSTRY

THE CHEMOURS CO.

DAIKIN INDUSTRIES LTD.

ENSINGER GMBH

FLUOROCARBON CO. LTD.

FLUOROTHERM POLYMERS INC.

FUXIN HENG TONG FLUORINE CHEMICALS CO. LTD.

GUARNIFLON SPA

GUJARAT FLUOROCEMICALS LTD.

HALOPOLYMER OJSC

HONEYWELL INTERNATIONAL INC.

ISOFLON

JIANGSU MEILAN CHEMICAL CO. LTD.

KUREHA CORP.

MURTFELDT KUNSTSTOFFE GMBH & CO. KG

NEWAGE INDUSTRIES

PARKER HANNIFIN CORP.

SAINT-GOBAIN

SHAMROCK TECHNOLOGIES

SHANDONG DONGYUE POLYMER MATERIAL CO. LTD.

SHANGHAI HUAYI 3F NEW MATERIALS CO. LTD.

SIMONA AG  
SOLVAY  
THERMOSEAL INC.  
WESTLAKE PLASTICS  
ZEUS INDUSTRIAL PRODUCTS INC.  
ZIBO BAINAISI CHEMICAL CO. LTD.

## **CHAPTER 12 APPENDIX: ACRONYMS**

### **12. LIST OF TABLES**

Summary Table : Global Market Volumes of Fluoropolymer Materials, by Region, Through 2028

Table 1 : Recent Patents in Global Fluoropolymer Materials Market, 2023

Table 2 : Global Market Volumes of Fluoropolymer Materials, by Resin Type, Through 2028

Table 3 : Popular Applications of PTFE in Key Industries

Table 4 : Global Market Volumes of PTFE, by Application, Through 2028

Table 5 : Global Market Volumes of PTFE, by Region, Through 2028

Table 6 : Principal Applications of PVDF in Key Industries

Table 7 : Global Market Volumes of PVDF, by Application, Through 2028

Table 8 : Global Market Volumes of PVDF, by Region, Through 2028

Table 9 : Principal Applications of FEP in Key Industries

Table 10 : Global Market Volumes of FEP, by Application, Through 2028

Table 11 : Global Market Volumes of FEP, by Region, Through 2028

Table 12 : Principal Applications of ETFE in Key Industries

Table 13 : Global Market Volumes of ETFE, by Application, Through 2028

Table 14 : Global Market Volumes of ETFE, by Region, Through 2028

Table 15 : Global Market Volumes of Other Fluoropolymers, by Application, Through 2028

Table 16 : Global Market Volumes of Other fluoropolymers, by Region, Through 2028

Table 17 : Types of Fluoroelastomers

Table 18 : Principal Applications of Fluoroelastomer in Key Industries

Table 19 : Global Market Volumes of Fluoroelastomers, by Application, Through 2028

Table 20 : Global Market Volumes of Fluoroelastomers, by Region, Through 2028

Table 21 : Global Market Volumes of Fluoropolymer Materials, by Application, Through 2028

Table 22 : Global Market Volumes of Fluoropolymer Materials in Industrial Applications, by Resin Type, Through 2028



Table 23 : Global Market Volumes of Fluoropolymer Materials in Electrical and Electronics Applications, by Resin Type, Through 2028

Table 24 : Global Market Volumes of Fluoropolymer Materials in Transportation Applications, by Resin Type, Through 2028

Table 25 : Global Market Volumes of Fluoropolymer Materials in Building and Construction Applications, by Resin Type, Through 2028

Table 26 : Global Market Volumes of Fluoropolymer Materials in Other Applications, by Resin Type, Through 2028

Table 27 : Global Market for Fluoropolymer Materials, Through 2028

Table 28 : North American Market Volumes of Fluoropolymer Materials, by Resin Type, Through 2028

Table 29 : North American Market Volumes of Fluoropolymer Materials, by Country, Through 2028

Table 30 : European Market Volumes of Fluoropolymer Materials, by Resin Type, Through 2028

Table 31 : European Market Volumes of Fluoropolymer Materials, by Country, Through 2028

Table 32 : Asia-Pacific Market Volumes of Fluoropolymer Materials, by Resin Type, Through 2028

Table 33 : Asia-Pacific Market Volumes of Fluoropolymer Materials, by Country, Through 2028

Table 34 : Rest of the World Market Volumes of Fluoropolymer Materials, by Resin Type, Through 2028

Table 35 : ESG Ratings and Metrics: Explained

Table 36 : Environment Issue Analysis in the Fluoropolymers Market

Table 37 : Social Issue Analysis in the Fluoropolymers Market

Table 38 : Governance Issue Analysis in the Fluoropolymers Market

Table 39 : ESG Risk Rating of Key Players in the Fluoropolymers Market

Table 40 : Leading Fluoropolymer Producers, by Type of Product

Table 41 : Key Market Developments, 2023

Table 42 : 3M Co.: Financial Performance, 2022

Table 43 : 3M Co.: News, 2022

Table 44 : 3M Co.: Fluoropolymer Product Portfolio

Table 45 : AGC Chemical Americas Inc.: News, 2023

Table 46 : AGC Chemical Americas Inc.: Fluoropolymer Product Portfolio

Table 47 : Arkema: Financial Performance, 2022

Table 48 : Arkema: News, 2022

Table 49 : Arkema: Fluoropolymer Product Portfolio

Table 50 : Chemical Industry Zhonghao Chenguang Research Institute: Fluoropolymer

## Product Portfolio

Table 51 : The Chemours Co.: Financial Performance, 2022

Table 52 : The Chemours Co.: News, 2023

Table 53 : The Chemours Co.: Fluoropolymer Product Portfolio

Table 54 : Daikin Industries Ltd.: Financial Performance, 2022

Table 55 : Daikin Industries Ltd.: News, 2023

Table 56 : Daikin Industries Ltd.: Fluoropolymer Product Portfolio

Table 57 : Ensinger GMBH: Fluoropolymer Product Portfolio

Table 58 : Fluorocarbon Co. Ltd.: Fluoropolymer Product Portfolio

Table 59 : Fluorotherm: News, 2023

Table 60 : Fluorotherm: Fluoropolymer Product Portfolio

Table 61 : Fuxin Heng Tong Fluorine Chemicals: Fluoropolymer Product Portfolio

Table 62 : Guarniflon S.P.A.: Fluoropolymer Product Portfolio

Table 63 : Gujarat Fluorochemicals Ltd.: Financial Performance, 2023

Table 64 : Gujarat Fluorochemicals Ltd.: News, 2022

Table 65 : Gujarat Fluorochemicals Ltd.: Fluoropolymer Product Portfolio

Table 66 : HaloPolymer OJSC : Fluoropolymer Product Portfolio

Table 67 : Honeywell International Inc.: Financial Performance, 2022

Table 68 : Honeywell International Inc.: Fluoropolymer Product Portfolio

Table 69 : ISOFLON: Fluoropolymer Product Portfolio

Table 70 : Jiangsu Meilan Chemical Co. Ltd.: Fluoropolymer Product Portfolio

Table 71 : Kureha Corp.: Financial Performance, 2023

Table 72 : Kureha Corp.: News, 2023

Table 73 : Kureha Corp.: Fluoropolymer Product Portfolio

Table 74 : Murtfeldt Kunststoffe GmbH & Co. KG: Fluoropolymer Product Portfolio

Table 75 : NewAge Industries: Fluoropolymer Product Portfolio

Table 76 : Parker Hannifin Corp.: Financial Performance, 2023

Table 77 : Parker Hannifin Corp.: News, 2021

Table 78 : Parker Hannifin Corp.: Fluoropolymer Product Portfolio

Table 79 : Saint Gobain: Financial Performance, 2022

Table 80 : Saint Gobain: Fluoropolymer Product Portfolio

Table 81 : Shamrock Technologies: Fluoropolymer Product Portfolio

Table 82 : Shandong Dongyue Polymer Material Co. Ltd.: Financial Performance, 2022

Table 83 : Shandong Dongyue Polymer Material Co. Ltd.: Fluoropolymer Product Portfolio

Table 84 : Shanghai 3F New Materials Co. Ltd: Fluoropolymer Product Portfolio

Table 85 : Simona AG: Fluoropolymer Product Portfolio

Table 86 : Solvay: Financial Performance, 2022

Table 87 : Solvay: News, 2023

Table 88 : Solvay: Fluoropolymer Product Portfolio

Table 89 : Thermoseal Inc.: Fluoropolymer Product Portfolio

Table 90 : Westlake Plastics: Fluoropolymer Product Portfolio

Table 91 : Zeus Industrial Products Inc.: Fluoropolymer Product Portfolio

Table 92 : Zibo Bainaisi Chemical Co. Ltd.: Fluoropolymer Product Portfolio

Table 93 : Acronyms Used in This Report

## 12. LIST OF FIGURES

Figure A : Research Methodology

Summary Figure : Global Market Volume Share for Fluoropolymers, by Region, 2022

Figure 1 : Leading Exporters of Fluorspar, 2021

Figure 2 : Key Market Dynamics: Drivers and Challenges

Figure 3 : Global Semiconductor Industry Sales, 2019–2022

Figure 4 : Benefits of Fluoropolymers in Renewable Energy Systems

Figure 5 : Net Renewable Electricity Capacity Additions, by Technology, 2020–2024

Figure 6 : Supply Chain Overview of the Fluoropolymer Materials Market

Figure 7 : Change in PTFE Prices Across Key Countries, from Q4 2022 to Q1 2023

Figure 8 : PTFE Price Changes: Quarter-Over-Quarter and Year-Over-Year

Figure 9 : Global Market Volume Shares of Fluoropolymer Materials, by Resin Type, 2022

Figure 10 : Global Market Volume Shares of PTFE, by Application, 2022

Figure 11 : Global Market Volume Shares of PTFE, by Region, 2022

Figure 12 : Global Market Volume Shares of PVDF, by Application, 2022

Figure 13 : Global Market Volume Shares of PVDF, by Region, 2022

Figure 14 : Global Market Volume Shares of FEP, by Application, 2022

Figure 15 : Global Market Volume Shares of FEP, by Region, 2022

Figure 16 : Global Market Volume Shares of ETFE, by Application, 2022

Figure 17 : Global Market Volume Shares of ETFE, by Region, 2022

Figure 18 : Global Market Volume Shares of Other Fluoropolymers, by Application, 2022

Figure 19 : Global Market Volume Shares of Other Fluoropolymers, by Region, 2022

Figure 20 : Global Market Volume Shares of Fluoroelastomers, by Application, 2022

Figure 21 : Global Market Volume Shares of Fluoroelastomers, by Region, 2022

Figure 22 : Global Market Volume Shares of Fluoropolymer Materials, by Application, 2022

Figure 23 : Global Market Volume Shares of Fluoropolymer Materials in Industrial Applications, by Resin Type, 2022

Figure 24 : Global Market Volume Shares of Fluoropolymer Materials in Electrical and

Electronics Applications, by Resin Type, 2022

Figure 25 : Benefits of Fluoropolymer Materials in the Transportation Industry

Figure 26 : Electric Car Sales, 2019–2023

Figure 27 : Global Market Volume Shares of Fluoropolymer Materials in Transportation Applications, by Resin Type, 2022

Figure 28 : Benefits of Fluoropolymers in the Building and Construction Industry

Figure 29 : Global Market Volume Shares of Fluoropolymer Materials in Building and Construction Applications, by Resin Type, 2022

Figure 30 : Key Demand Drivers for Cookware and Bakeware Products

Figure 31 : Global Market Volume Shares of Fluoropolymer Materials in Other Applications, by Resin Type, 2022

Figure 32 : North American Market Volume Shares of Fluoropolymer Materials, by Resin Type, 2022

Figure 33 : North American Market Volume Shares of Fluoropolymer Materials, by Country, 2022

Figure 34 : European Market Volume Shares of Fluoropolymer Materials, by Resin Type, 2022

Figure 35 : European Market Volume Shares of Fluoropolymer Materials, by Country, 2022

Figure 36 : Asia-Pacific Market Volume Shares of Fluoropolymer Materials, by Resin Type, 2022

Figure 37 : Asia-Pacific Market Volume Shares of Fluoropolymer Materials, by Country, 2022

Figure 38 : Rest of the World Market Volume Shares of Fluoropolymer Materials, by Resin Type, 2022

Figure 39 : ESG Issues in the Fluoropolymers Market

Figure 40 : Main ESG Index of Solvay

Figure 41 : 3M Co.: Financial Performance, 2021 and 2022

Figure 42 : 3M Co.: Revenue Shares, by Business Unit, 2022

Figure 43 : Arkema: Financial Performance, 2021 and 2022

Figure 44 : Arkema.: Revenue Shares, by Business Unit, 2022

Figure 45 : The Chemours Co.: Financial Performance, 2021 and 2022

Figure 46 : The Chemours Co.: Revenue Shares, by Business Unit, 2022

Figure 47 : The Chemours Co.: Revenue Shares, by Region, 2022

Figure 48 : Daikin Industries Ltd.: Financial Performance, 2021 and 2022

Figure 49 : Daikin Industries Ltd.: Revenue Shares, by Business Unit, 2022

Figure 50 : Daikin Industries Ltd.: Revenue Shares of Material Segment, by Region, 2022

Figure 51 : Gujarat Fluorochemicals Ltd.: Financial Performance, 2022 and 2023

Figure 52 : Honeywell International Inc.: Financial Performance, 2021 and 2022

Figure 53 : Honeywell International Inc.: Revenue Shares, by Business Unit, 2022

Figure 54 : Honeywell International Inc.: Revenue Shares, by Country/Region, 2022

Figure 55 : Kureha Corp.: Financial Performance, 2021 and 2022

Figure 56 : Kureha Corp.: Revenue Shares, by Business Unit, 2022

Figure 57 : Parker Hannifin Corp.: Financial Performance, 2022 and 2023

Figure 58 : Parker Hannifin Corp.: Revenue Shares, by Business Unit, 2023

Figure 59 : Parker Hannifin Corp.: Revenue Shares, by Region, 2023

Figure 60 : Saint Gobain: Financial Performance, 2021 and 2022

Figure 61 : Saint Gobain: Revenue Shares, by Business Unit, 2022

Figure 62 : Shandong Dongyue Polymer Material Co. Ltd.: Financial Performance, 2021 and 2022

Figure 63 : Solvay: Annual Revenue, 2021 and 2022

Figure 64 : Solvay: Revenue Shares, by Business Unit, 2022

Figure 65 : Solvay: Revenue Shares, by Region, 2022

## I would like to order

Product name: Fluoropolymer Materials: Technologies and Global Markets

Product link: <https://marketpublishers.com/r/F875C8C8EE89EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F875C8C8EE89EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970