

Fluoropolymer Materials Market: Segmented by Type (Polytetrafluoroethylene (PTFE), Fluoroelastomers, Polyvinylidene Fluoride (PVDF), and Fluorinated Ethylene Propylene (FEP)), By Application (Electrical and Electronics, Automotive and Transportation, Industrial Processing, and Building and Construction), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[179+ Pages Research Report] Global Fluoropolymer Materials Market to surpass USD 6.9 billion by 2030 from USD 3.5 billion in 2020 at a CAGR of 6.4% in the coming years, i.e., 2021-30.

Product Overview

Fluoropolymer materials are made up of fluorocarbon-based polymers with solid carbon-fluorine linkages. Fluoropolymers have a semi-crystalline structure and thus thermoplastic capabilities, which means that at a particular temperature, they become liquid or viscous, allowing them to be molded and shaped as needed. They are also very resistant to bases, solvents, and acids. Fluoropolymers come in two varieties: homopolymers and copolymers. Fluoropolymers are resistant to harsh media because fluorine has a higher stability than chlorine.

Market Highlights

Global Fluoropolymer Materials market is expected to project a notable CAGR of 6.4% in 2030.

The expanding demand for the polymer from a variety of end-use sectors, as well as its increasing use in PV systems, are important driving drivers for the high-performance fluoropolymers business. The need for medical-grade fluoropolymers is exploding at a rapid rate. There is a strong demand for testing and other health equipment as a result of the corona outbreak. As a result, the worldwide fluoropolymer market will be driven in the forecasted period.

Global Fluoropolymer Materials: Segments

Polytetrafluoroethylene (PTFE) segment to grow with the highest CAGR during 2020-30

Global Fluoropolymer Materials market is segmented by type into polytetrafluoroethylene (PTFE), fluoroelastomers, polyvinylidene fluoride (PVDF), and fluorinated ethylene propylene (FEP). Polytetrafluoroethylene (PTFE) segment held the largest market share in the year 2020. The material is widely employed in the electrical and electronic industries, as well as in chemical processing. The fluoroelastomers category is predicted to increase at the quickest rate throughout the projection period. This can be attributable to the growing use of fluoroelastomers, which have excellent chemical, oil, and heat resistance. Furthermore, as compared to other fluoropolymer kinds, these materials can withstand temperatures above 200 °C for longer.

Electrical and electronics segment to grow with the highest CAGR during 2020-30

Global Fluoropolymer Materials market is divided by application into electrical and electronics, automotive and transportation, industrial processing, and building and construction. Electrical and electronics segment held the largest market share in the year 2020 due to increased demand in the near future due to their increasing use in cable and wire insulation, jacketing, and semiconductor fabrication, as well as their widespread use in lithium-ion batteries. Furthermore, due to fluoropolymers' non-adhesiveness and low friction, as well as their resilience to weather, heat, and chemicals, industrial processing as a fluoropolymer application field is expected to increase significantly.

Market Dynamics

Drivers

Wide usage in sectors as well as features like high resistance

Fluoropolymer materials are widely employed in automotive, electrical and electronic, and aerospace applications, which continue to fuel the global fluoropolymer materials

market. Fluoropolymers are used to coat data transmission cables, automotive cables, and electronic cables in the electrical and electronics industry. The elastomer and thermoplastic forms of fluoropolymers are widely utilized in the automobile industry because they offer resistance to high temperatures, lubricants, and fuels, boosting the global market.

Investments in new products and increasing demand

Research and development (R&D) investment for the launch of innovative products is critical to market growth. Key companies in the fluoropolymer market invest in new product development for end-use applications. It was created to meet the growing demand from end-user industries. Furthermore, significant businesses around the world are concentrating on increasing production capacity to meet global demand while using less energy, generating less carbon, and manufacturing more efficient products.

Restraint

Environmental as well as health issues

The fluoropolymer market is projected to be hampered by a stringent regulatory environment. The USEPA considers perfluorooctanoic acid (PFOA), which is used as a raw ingredient, to be carcinogenic. The main cause of PFOA contamination is its use in a wide range of domestic items, such as furniture sprays and stain-resistant carpets, which is expected to stymie industry expansion in the coming years.

Global Fluoropolymer Materials: Key Players

Shanghai 3F

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Jinan 3F Fluoro-Chemical Co. Ltd

AGC Chemicals Europe

Dyneon GmbH

3M

AGC Chemicals Europe

Zhonghao Chenguang Research Institute of Chemical Industry

DuPont, Solvay Solexis, Ltd.

Gujarat Fluorochemicals Ltd.

Other Prominent Players

Global Fluoropolymer Materials: Regions

Global Fluoropolymer Materials market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East and Africa. Due to rising demand for high-quality medical, automotive, consumer, and electronics products, the APAC high-performance fluoropolymers market has been driven by the existence of big manufacturing hubs in China and India. China, India, Japan, and South Korea are only a few of the world's leading and largest automakers, generating steady demand for fluoropolymer goods in the transportation industry. Furthermore, these countries are major producers and exporters of a wide range of medical and pharmaceutical, electronics, automotive, and chemical products around the world.

Global Fluoropolymer Materials is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global Fluoropolymer Materials report also contains analysis on:

Fluoropolymer Materials Segments:

By Type

Polytetrafluoroethylene (PTFE)

Fluoroelastomers

Polyvinylidene fluoride (PVDF)

Fluorinated ethylene propylene (FEP)

By Application

Electrical and electronics

Automotive and transportation

Industrial processing

Building and construction

Fluoropolymer Materials Dynamics

Fluoropolymer Materials Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

Fluoropolymer Materials Market Report Scope and Segmentation

Report Attribute Details

Market size value in 2020 USD 3.5 billion

Revenue forecast in 2030 USD 6.9 billion

Growth Rate CAGR of 6.4% from 2021 to 2030

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Type, application, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled Shanghai 3F, Jinan 3F Fluoro-Chemical Co. Ltd, AGC

Chemicals Europe, Dyneon GmbH, 3M, AGC Chemicals Europe, Zhonghao Chenguang

Research Institute of Chemical Industry, DuPont, Solvay Solexis, Ltd., Gujarat

Fluorochemicals Ltd., and Other Prominent Players

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**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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