

High-Performance Fluoropolymers Market by Type(PTFE, FEP, PFA/MFA, ETFE), Form(Granular, Fine Powder & Dispersion), Application, End-use Industry(Industrial Processing, Transportation, Electrical & Electronics, Medical) & Region - Global Forecast to 2026

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Abstracts

The global high-performance fluoropolymers (HPF) market size is estimated to be USD 3.7 billion in 2021 and is projected to reach USD 5.1 billion by 2026, at a CAGR of 6.8%. This growth is attributed to HPF's growing number of applications in various industries. Also, expansion across end-use industries is further driving the industry for HPF globally. Rapid adoption of 5G Connectivity, advancements in the designing of electronic components, and rising need of hybrid and compact engines for automobiles are also among the major drivers of the HPF consumption.

PTFE accounted for the largest share in total HPF market

PTFE is the most widely used type of HPF and accounted for the largest market share. There is an increase in the use of dispersion and fine powder PTFE, for various applications, especially in North America and APAC. It is used in a wide range of applications such as semiconductor, automotive components, electrical appliances, and non-stick cookware. The growing applications in the electrical & electronics industry are expected to trigger the demand for PTFE, especially in advanced batteries and fuel cells.

Granular form accounted for the largest market share

HPF market is segmented into various forms such as suspension/granules, Fine powder & dispersion, and micropowder. HPF in the form of suspension/granules dominate the market. HPF exhibit excellent properties, such as good insulation, low surface energies, and high resistance to oils, UV radiation, chemicals, water, and corrosion. Granular fluoropolymers are processed by compression and sintering to make parts directly or to make billets suitable for machining. HPF in the form of granules are ideal for manufacturing high-performance mechanical/electrical products requiring excellent end-use performance such as skived tapes, films, sheets, machined gaskets, expansion joints, bellows, piston rings, and diaphragms. Suitability of granular form of HPF in the manufacturing of various components is a major reason for the large market size.

Coatings & liners accounted for the largest market share

HPF market is segmented on the basis of applications as coatings & liners, components, films, and additives. The market in coatings & liners is estimated to account for the largest share during the forecast period. HPF coatings and liners are used to overcome the challenges of protecting large and complex containment vessels and related piping systems. Coatings & liners offer corrosion, abrasion, and wear resistance while maintaining non-stick and high purity characteristics.

Electronic & Electricals segment accounted for the largest market share

HPF market is segmented on the basis of end-use industry as industrial processing, transportation, medical, electrical & electronics, and others. The increased usage of HPF in wire coatings, cable coatings, fiber optics, and electrical systems in aircraft, computers, and other applications.

Asia Pacific is the largest HPF market globally

In 2020, Asia Pacific accounted for the largest share in the global HPF market. Leading manufacturers and exporters of medical & pharmaceutical, electronics, automotive, and chemical products. The availability of cheap raw materials, low-cost labor, and presence of established end-use industries, such as chemical, oil & gas, transportation, and medical.

China and India, have benefited the HPFs market, owing to increasing demand for high-quality medical, automotive, consumer, and electronic products. China, India, Japan, and South Korea are among the largest automobile producers globally, which creates

demand on a regular basis for fluoropolymer products in the transportation industry. Presence of full-fledged end-use industries is the major demand driver for HPF in Asia Pacific.

Extensive primary interviews were conducted in the process of determining and verifying sizes of several segments and subsegments of the HPF market gathered through secondary research.

The breakdown of primary interviews has been given below.

By Company Type: Tier 1 – 40%, Tier 2 – 30%, and Tier 3 – 30%

By Designation: C Level Executives – 20%, Director Level – 10%, Others – 70%

By Region: North America – 20%, Asia Pacific – 30%, Europe – 30%, Middle East & Africa – 10%, South America – 10%

The key companies profiled in this report include The Chemours Company (US), Daikin Industries (Japan), 3M (US), Solvay (Belgium), AGC, Inc. (Japan), The Dongyue Group (China), GFL Limited (India), Fluoroseals SpA (Italy), Halopolymer (Russia), and Hubei Everflon polymer (China).

Research Coverage

This report covers the HPF market and forecasts its market size until 2026. The market has been segmented based on type, form, end-use industry, and region. The report also provides detailed information on company profiles and competitive strategies adopted by the key players to strengthen their positions in the market. The report also provides insights into the driving and restraining factors in the HPF market, along with opportunities and challenges across these industries. It also includes profiles for top manufacturers in the market.

Reasons to Buy the Report

The report is expected to help market leaders/new entrants in the following ways:

1. This report segments the HPF market and provides the closest approximations of overall market size for its segments across different verticals and regions.

2. This report is expected to help stakeholders understand the pulse of the market and provide information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.
3. This report is expected to help stakeholders obtain an in-depth understanding of the competitive landscape of the market and gain insights to improve the position of their businesses. The competitive landscape section includes detailed information on strategies, such as new product launch, merger & acquisition, and investment & expansion.

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*Details on Business Overview, Products Offered, Recent Developments, Deals, MnM view, Key strengths/right to win, Strategic choices made, Weakness/competitive threats might not be captured in case of unlisted companies.

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