

PVDF Resin Market By Type of Crystalline Phase (Alpha, Beta, Gamma, Delta), By Application (Pipes and Fittings, Films and Sheets, Coatings, Membranes, Wire and Cable, Li-ion Batteries, Others), By End-user industry (Chemical Processing Industry, Electrical and Electronics, Building and Construction, Oil and Gas, Automotive, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global PVDF resin market was valued at \$2.0 billion in 2021, and is projected to reach \$4.2 billion by 2031, growing at a CAGR of 7.8% from 2022 to 2031.

Polyvinylidene fluoride (PVDF) is a type of thermoplastic fluoropolymer, which possess high inertness and stability. It is formed from the polymerization of vinylidene difluoride. PVDF resins are used for easy processing in molding, extrusion, and compounding as thermostatic polymers. It is also used as a powder to make solutions, additives, and others. It has high chemical resistance toward chlorine, bromine, iodine, and other acids at high temperatures. It is available as piping products, sheets, tubing, films, plate, and an insulator for premium wire. It can be injected, molded, or welded and is commonly used in the chemical, semiconductor, medical, and defense industries, as well as in lithium-ion batteries. It is also available as a cross-linked closed-cell foam, used increasingly in aviation and aerospace applications.

The rise in demand for PVDF resin from various end-use industries such as chemical processing, electrical & electronics, new energies, construction, and others is expected to be the key driving factor in the growth of the market. In addition, high-performance properties coupled with the rising adoption of PVDF resin are anticipated to fuel the market growth during the forecast period.

However, environmental & health concerns coupled with volatile raw material prices and the high threat of substitutes are expected to hamper the growth of the market in the upcoming years. Presently, the global PVDF resin market is witnessing vivid opportunities due to increased investment in the renewable energy sector and key growth opportunities for PVDF resin from

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various end-use industries.

For the purpose of analysis, the global PVDF resin market is segmented into type of crystalline phase, applications, end-use industry, and region. Depending on type of crystalline phase, the market is bifurcated into alpha, beta, gamma, and delta. On the basis of application, the PVDF resin market is segmented into resin and filament. Based on the end-use industry, the global PVDF resin market is segmented into chemical processing, electrical & electronics, construction, new energies, oil & gas, pharmaceuticals & biomedical, and others. Region-wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Key players operating in the global PVDF resin market are Arkema S.A., Daikin Industries, Ltd., Kureha Corporation, RTP Company, Inc., Shanghai Huayi 3F New Materials Co., Ltd., Shanghai Ofluorine Co., Limited, Solvay SA, 3M, Zhejiang Fotech International Co., Ltd., and Zhuzhou Hongda Polymer Materials Co., Ltd.

Other players operating in the PVDF resin market are Agiplast, SKC, Sinochem Lantian, Dongyue Group, and others.

Key players in this market are adopting various key strategies such as business expansion & product launches to stay competitive in the market. For instance, in November 2020, Arkema S.A. increased its PVDF production capacity at its Changshu Plant in China. This expansion in production capacity is aimed at increasing 50% of Kynar fluoropolymer for the lithium battery business. Similarly, Solvay SA reinforced its presence in the lithium-ion battery market by enhancing its manufacturing capacity of high-performance polymer SOLEF polyvinylidene fluoride (PVDF) at its production site in Changshu, China. The new production site is targeted to be in operation by the first quarter of 2022.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the PVDF resin market analysis from 2021 to 2031 to identify the prevailing PVDF resin market opportunities.
- Market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders to make profit-oriented business decisions and strengthen their supplier-buyer network.
- An in-depth analysis of the PVDF resin market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes an analysis of the regional as well as global PVDF resin market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type of Crystalline Phase

- Alpha
- Beta
- Gamma
- Delta

By End-user industry

- Chemical Processing Industry
- Electrical and Electronics
- Building and Construction
- Oil and Gas
- Automotive
- Others

By Application

- Membranes
- Wire and Cable
- Li-ion Batteries
- Others
- Pipes and Fittings

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- Films and Sheets
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- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- Italy
- UK
- Spain
- Rest of Europe
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- South Africa,
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- SABIC
- 3M Company
- Daikin Industries Ltd.
- RTP company
- Shanghai Ofluorine Co. Limited
- Gujarat Fluorochemicals Limited
- Dongyue Group Limited
- Kureha Corporation
- Arkema
- Solvay
- Zhejiang Fotech International Co. Ltd

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