

# **PVDF Resin Market Report by Type (PVDF Granule, PVDF Powder), Type of Crystalline Phase (Alpha, Beta, Gamma, Delta), Application (Coating, Injection and Extrusion Products, Lithium-ion Battery Binders, Photovoltaic Film, Water Treatment Membranes, Filament), End Use Industry (Chemical Processing, Electrical and Electronics, Construction, New Energies, Oil and Gas, Pharmaceutical and Biomedical, and Others), and Region 2024-2032**

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## **Abstracts**

The global PVDF resin market size reached US\$ 1,166.0 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,887.7 Million by 2032, exhibiting a growth rate (CAGR) of 5.4% during 2024-2032.

Polyvinylidene fluoride (PVDF) is a thermoplastic fluoropolymer resin that is highly inert and stable with excellent chemical, abrasion, and flame resistance. It is produced from the polymerization of vinylidene difluoride (VDF) and offers high tensile strength, surface hardness, and heat and ultraviolet (UV) light resistance. As a result, it is used in the production of piping products, sheets, tubes, films, and plates around the world. It is also utilized as coatings on metal roofs, garage doors, and wall panels and applied on curtain walls, aluminum windows and door framing, soffits, and sunshades to form aluminum extrusions. Besides this, it finds applications in the automotive and transportation, agriculture, packaging, aerospace and defense, oil and gas, pharmaceutical, biomedical, and chemical industries worldwide.

PVDF Resin Market Trends:

The rising application of PVDF resins in the aerospace and defense industry to protect the equipment from moisture, shock, vibration and chemicals represents one of the key factors driving the market. Moreover, these resins are used as a binder for manufacturing lithium-ion batteries across the globe. This, along with the escalating demand for PVDF resins for easy processing in molding, extrusion and compounding, is propelling the growth of the market. In addition, they are used in wires and cables due to their lightweight, flexibility, and low thermal conductivity. These cables are further used in commercial and military electronics, avionics, satellites, aircraft, helicopters, ships, trains, and offshore platforms. Besides this, expanding electronics industry on account of the rising sales of smartphones, portable computing devices, gaming systems is positively influencing the market. Furthermore, governments of several countries are extensively investing in the renewable energy sector, which, in turn, is projected to bolster the growth of the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global PVDF resin market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, type of crystalline phase, application and end use industry.

#### Breakup by Type:

- PVDF Granule
- PVDF Powder

#### Breakup by Type of Crystalline Phase:

- Alpha
- Beta
- Gamma
- Delta

#### Breakup by Application:

- Coating
- Injection and Extrusion Products
- Lithium-ion Battery Binders
- Photovoltaic Film
- Water Treatment Membranes

Filament

Breakup by End Use Industry:

Chemical Processing  
Electrical and Electronics  
Construction  
New Energies  
Oil and Gas  
Pharmaceutical and Biomedical  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, AGC Chemicals (AGC Inc.), Akzo Nobel N.V., Arkema S.A, Daikin Industries Ltd., Dongyue Group, Kureha Corporation, PPG Industries Inc., Sinochem Lantian Co. Ltd., Solvay S.A, The Sherwin-Williams Company and Zhejiang Fotech International Co. Ltd.

### Key Questions Answered in This Report

1. What was the size of the global PVDF resin market in 2023?
2. What is the expected growth rate of the global PVDF resin market during 2024-2032?
3. What are the key factors driving the global PVDF resin market?
4. What has been the impact of COVID-19 on the global PVDF resin market?
5. What is the breakup of the global PVDF resin market based on the type?
6. What is the breakup of the global PVDF resin market based on the type of crystalline phase?
7. What is the breakup of the global PVDF resin market based on the end use industry?
8. What are the key regions in the global PVDF resin market?
9. Who are the key players/companies in the global PVDF resin market?

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