

PVDF Resin Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global PVDF resin market size reached US\$ 944.1 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,362.1 Million by 2028, exhibiting a growth rate (CAGR) of 6.11% during 2023-2028.

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 2023-2028. 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 2022?

2. What is the expected growth rate of the global PVDF resin market during 2023-2028?
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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