

# **Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) PVDF Resin Market 2018, Forecast to 2023**

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## **Abstracts**

This report is concentrated on PVDF Resin . PVDF is a polymer with several crystalline forms depending on the processing conditions. It has a melting temperature (~170 oC) significantly lower than that of the other fluoropolymers. The normal processing temperatures for PVDF are in the range 200–260 °C, and the continuous service temperature for PVDF is up to 150 °C. The crystallinity of PVDF increases significantly in the first week after processing and stabilizes after 4 weeks. This phenomenon increases crystallinity up to 65% and results in the intrinsic stress and the potential stress cracking. Scope of the Report:

This report focuses on the PVDF Resin in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. PVDF has very good chemical resistance to a wide range of chemicals, but it is not as good as that of other fluoropolymers. For example, PVDF can be swollen by polar solvents such as ethyl acetate and acetone. It shows medium flame resistance properties. PVDF also shares many of the characteristics of other fluoropolymers, such as thermal and oxidative stability, as well as outstanding weatherability. PVDF has substantially greater strength, wear resistance, and creep resistance than PTFE and FEP. PVDF undergoes cross-linking when exposed to ionizing radiation, which leads to a modification of its mechanical properties.

PVDF has been used in the architectural Agricultural Coating, the wire and cable industry and the chemical industry for valves, pumps and bearings. Heat-shrinkable tubing made from PVDF is used in the electronics, aerospace, and aircraft industries. The alternative arrangement of fluorine and hydrogen atoms on the polymer main chain leads to an unusual polarity with a dramatic effect on dielectric properties. PVDF has a

high dielectric constant (8 ~ 9) relative to the other fluoropolymers, and it also shows strong piezoelectricity. The promising developments include actuator materials, piezoelectric ceramics, piezoelectric composites and piezomicrosensors.

Rising demand for PVDF resin in various end-user industries, collaborations and strategic alliances between market players and high performance properties coupled with rising acceptance of PVDF resin are some of the important factors that are expected to drive the market growth over the forecast period. However, factors such as increasing threat of substitutes and growing environmental & health concerns coupled with volatile prices are likely to hamper the market growth during the forecast period. Furthermore, a growth in the penetration of PVDF resin in industries such as new energies, oil & gas, automotive and aviation will provide significant opportunities to the industry players across the value chain. Besides, significant investments in research & development activities is expected to provide novel opportunities for the market to grow in the near future.

The worldwide market for PVDF Resin is expected to grow at a CAGR of roughly 22.0% over the next five years, will reach 4290 million US\$ in 2023, from 1300 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Arkema

Solvay

Dongyue

3F

Kureha

Sinochem Lantian

Zhejiang Juhua

Shandong Deyi

3M

Zhejiang Fluorine

DAIKIN

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

PVDF Granule

PVDF Powder

Market Segment by Applications, can be divided into

Agricultural Coating

Chemicals

Electronics

Others

There are 15 Chapters to deeply display the global PVDF Resin market.

Chapter 1, to describe PVDF Resin Introduction, product scope, market overview, market opportunities, market risk, market driving force;

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Chapter 2, to analyze the top manufacturers of PVDF Resin, with sales, revenue, and price of PVDF Resin, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of PVDF Resin, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, PVDF Resin market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe PVDF Resin sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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