

2018-2023 Global PVDF Resin Consumption Market Report

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Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global PVDF Resin market for 2018-2023.

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.

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.

Over the next five years, LPI(LP Information) projects that PVDF Resin will register a 22.0% CAGR in terms of revenue, reach US\$ 4290 million by 2023, from US\$ 1300 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of PVDF Resin market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

PVDF Granule

PVDF Powder

Segmentation by application:

Agricultural Coating

Chemicals

Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Arkema

Solvay

Dongyue

3F

Kureha

Sinochem Lantian

Zhejiang Juhua

Shandong Deyi

3M

Zhejiang Fluorine

DAIKIN

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global PVDF Resin consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of PVDF Resin market by identifying its various subsegments.

Focuses on the key global PVDF Resin manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the PVDF Resin with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of PVDF Resin submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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