

Global Lithium Battery Grade PVDF Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Lithium Battery Grade PVDF Resin market size was valued at US\$ 1531 million in 2025 and is forecast to a readjusted size of US\$ 9905 million by 2032 with a CAGR of 27.0% during review period.

Lithium Battery Grade PVDF Resin, also known as Lithium Battery Grade Polyvinylidene Fluoride Resin, is a highly stable thermoplastic fluoropolymer and the second most used material among fluorine-containing resins. It is mainly polymerized from vinylidene fluoride monomers and has excellent chemical stability, mechanical properties, corrosion resistance and insulation properties. In the field of lithium batteries, lithium battery grade PVDF resin is widely used due to its unique properties.

Lithium-ion battery-grade PVDF resin is a key functional material in lithium-ion battery manufacturing, primarily used as a positive electrode binder. It firmly bonds the positive electrode active material and conductive agent to the surface of the aluminum foil current collector, thus ensuring electrode structural stability and cycle life. Compared to ordinary industrial-grade PVDF, lithium-ion battery-grade products have higher requirements in terms of molecular weight distribution, purity control, moisture content, and solubility to meet the stringent standards for electrochemical performance consistency in power batteries and energy storage batteries. With the rapid development of the global new energy vehicle and energy storage industries, the market size of lithium-ion battery-grade PVDF resin continues to expand.

In recent years, the global installed capacity of power batteries has maintained rapid growth, and the penetration rate of new energy vehicles has continued to increase,

driving a simultaneous increase in demand for positive electrode materials and binders. Especially against the backdrop of the advancement of high-nickel ternary materials and high-energy-density battery technologies, higher requirements are placed on the adhesion strength, chemical stability, and electrolyte resistance of binders, making lithium-ion battery-grade PVDF resin one of the key materials. At the same time, the rapid expansion of the energy storage battery market brings new incremental demand to the industry.

From a product structure perspective, lithium-ion grade PVDF resin is mainly used in the cathode binder field, occupying the vast majority of the market share; the demand for PVDF for separator coating is also gradually increasing. Classified by molecular weight, medium and high molecular weight products are the mainstream application type, with high molecular weight products showing an increasing proportion of application in high-nickel cathode systems. As battery companies increase their requirements for performance consistency and safety, products are upgrading towards higher purity and higher stability, driving the industry's technological barriers to increase continuously.

In terms of the industry chain, the upstream consists of fluorochemical raw material and monomer suppliers, the midstream consists of PVDF polymerization production enterprises, and the downstream consists of battery manufacturers and cathode material manufacturers. The industry exhibits high technological and capital barriers, with companies possessing large-scale production capabilities and stable quality control systems holding an advantage in market competition. In terms of regional markets, Asia, especially China, is the world's largest lithium battery production base, accounting for the majority of consumption; demand growth in Europe and North America is significant against the backdrop of localized battery industry chain development.

Looking ahead, the global lithium-ion grade PVDF resin market will be driven by three core factors: first, the continued growth in demand for power batteries brought about by the increasing volume of new energy vehicles; second, the rapid expansion of the energy storage market; and third, the technological upgrade of high-nickel and high-energy-density batteries. Industry growth will increasingly come from product structure upgrades and increased unit value.

This report is a detailed and comprehensive analysis for global Lithium Battery Grade PVDF Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Lithium Battery Grade PVDF Resin market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Lithium Battery Grade PVDF Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Lithium Battery Grade PVDF Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Lithium Battery Grade PVDF Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lithium Battery Grade PVDF Resin

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Lithium Battery Grade PVDF Resin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arkema, Syensqo, Zhejiang Juhua, Zhejiang Fluorine, Shanghai PTL New Energy Technology, Dongyue Group, Kureha, Shandong Deyi, Huayi 3F New Materials, Sinochem Lantian, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Lithium Battery Grade PVDF Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Emulsion

Suspension

Market segment by Molecular Mass

High Molecular Mass

Medium Molecular Mass

Low Molecular Mass

Market segment by Battery

For TLB

For LFP

Market segment by Application

Adhesives

Diaphragm Coatings

Major players covered

Arkema

Syensqo

Zhejiang Juhua

Zhejiang Fluorine

Shanghai PTL New Energy Technology

Dongyue Group

Kureha

Shandong Deyi

Huayi 3F New Materials

Sinochem Lantian

Lecron Industrial

Zhejiang Yonghe Refrigerant

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Lithium Battery Grade PVDF Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium Battery Grade PVDF Resin, with price, sales quantity, revenue, and global market share of Lithium Battery Grade PVDF Resin from 2021 to 2026.

Chapter 3, the Lithium Battery Grade PVDF Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium Battery Grade PVDF Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Lithium Battery Grade PVDF Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lithium Battery Grade PVDF Resin.

Chapter 14 and 15, to describe Lithium Battery Grade PVDF Resin sales channel, distributors, customers, research findings and conclusion.

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