

Global Lithium Battery Grade PVDF Resin Market Growth 2026-2032

<https://marketpublishers.com/r/G9376F671A88EN.html>

Date: June 2026

Pages: 125

Price: US\$ 3,660.00 (Single User License)

ID: G9376F671A88EN

Abstracts

The global Lithium Battery Grade PVDF Resin market size is predicted to grow from US\$ 1455 million in 2025 to US\$ 10191 million in 2032; it is expected to grow at a CAGR of 28.7% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Lithium Battery Grade PVDF Resin Industry Forecast" looks at past sales and reviews total world Lithium Battery Grade PVDF Resin sales in 2025, providing a comprehensive analysis by region and market sector of projected Lithium Battery Grade PVDF Resin sales for 2026 through 2032. With Lithium Battery Grade PVDF Resin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the

world Lithium Battery Grade PVDF Resin industry.

This Insight Report provides a comprehensive analysis of the global Lithium Battery Grade PVDF Resin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Lithium Battery Grade PVDF Resin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lithium Battery Grade PVDF Resin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lithium Battery Grade PVDF Resin and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Lithium Battery Grade PVDF Resin.

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

Segmentation by Type:

Emulsion

Suspension

Segmentation by Molecular Mass:

High Molecular Mass

Medium Molecular Mass

Low Molecular Mass

Segmentation by Battery:

For TLB

For LFP

Segmentation by Application:

Adhesives

Diaphragm Coatings

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

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lithium Battery Grade PVDF Resin market?

What factors are driving Lithium Battery Grade PVDF Resin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Lithium Battery Grade PVDF Resin market opportunities vary by end market size?

How does Lithium Battery Grade PVDF Resin break out by Type, by Application?

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