

# Global Lithium Battery Grade PVDF Resin Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Battery Grade PVDF Resin market size is expected to reach \$ 9905 million by 2032, rising at a market growth of 27.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Lithium Battery Grade PVDF Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery Grade PVDF Resin and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends

and competition, as well as details the characteristics of Lithium Battery Grade PVDF Resin that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lithium Battery Grade PVDF Resin total production and demand, 2021-2032, (Tons)

Global Lithium Battery Grade PVDF Resin total production value, 2021-2032, (USD Million)

Global Lithium Battery Grade PVDF Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Lithium Battery Grade PVDF Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Lithium Battery Grade PVDF Resin domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Grade PVDF Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Lithium Battery Grade PVDF Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Lithium Battery Grade PVDF Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Lithium Battery Grade PVDF Resin market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lithium Battery Grade PVDF Resin market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Lithium Battery Grade PVDF Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Lithium Battery Grade PVDF Resin Market, Segmentation by Type:

Emulsion

Suspension

#### Global Lithium Battery Grade PVDF Resin Market, Segmentation by Molecular Mass:

High Molecular Mass

Medium Molecular Mass

Low Molecular Mass

#### Global Lithium Battery Grade PVDF Resin Market, Segmentation by Battery:

For TLB

For LFP

Global Lithium Battery Grade PVDF Resin Market, Segmentation by Application:

Adhesives

Diaphragm Coatings

Companies Profiled:

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 Answered:**

1. How big is the global Lithium Battery Grade PVDF Resin market?
2. What is the demand of the global Lithium Battery Grade PVDF Resin market?
3. What is the year over year growth of the global Lithium Battery Grade PVDF Resin market?
4. What is the production and production value of the global Lithium Battery Grade PVDF Resin market?
5. Who are the key producers in the global Lithium Battery Grade PVDF Resin market?
6. What are the growth factors driving the market demand?

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