

Global PVDF Resin for Lithium Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PVDF Resin for Lithium Batteries 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).

PVDF resin for lithium batteries refers to high-purity polyvinylidene fluoride (PVDF) material specifically used in the manufacture of lithium-ion batteries. It is primarily used as an electrode binder to firmly bond positive electrode active materials (such as ternary materials and lithium iron phosphate) to conductive agents and adhere them to the current collector surface. Compared to ordinary industrial-grade PVDF, lithium-ion battery-grade PVDF has higher requirements for molecular weight distribution, purity, moisture content, and solubility to ensure electrode structural stability, cycle performance, and electrochemical consistency. This material is typically dissolved in NMP (N-methylpyrrolidone) to form a slurry and is one of the key functional materials in the lithium battery positive electrode manufacturing process. In 2025, the consumption of PVDF resin for lithium batteries was approximately 116,795 tons.

PVDF resin for lithium-ion batteries 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 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 PVDF resin for lithium-ion batteries 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, PVDF resin for lithium batteries 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 PVDF resin market for lithium batteries 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 PVDF Resin for Lithium Batteries production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PVDF Resin for Lithium Batteries 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 PVDF Resin for Lithium Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PVDF Resin for Lithium Batteries total production and demand, 2021-2032, (Tons)

Global PVDF Resin for Lithium Batteries total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global PVDF Resin for Lithium Batteries 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 PVDF Resin for Lithium Batteries 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 PVDF Resin for Lithium Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PVDF Resin for Lithium Batteries Market, Segmentation by Type:

Emulsion

Suspension

Global PVDF Resin for Lithium Batteries Market, Segmentation by Molecular Mass:

High Molecular Mass

Medium Molecular Mass

Low Molecular Mass

Global PVDF Resin for Lithium Batteries Market, Segmentation by Battery:

For TLB

For LFP

Global PVDF Resin for Lithium Batteries Market, Segmentation by Application:

Lithium Battery Binder

Lithium Battery Separator

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

Contents

1 SUPPLY SUMMARY

- 1.1 PVDF Resin for Lithium Batteries Introduction
- 1.2 World PVDF Resin for Lithium Batteries Supply & Forecast
 - 1.2.1 World PVDF Resin for Lithium Batteries Production Value (2021 & 2025 & 2032)
 - 1.2.2 World PVDF Resin for Lithium Batteries Production (2021-2032)
 - 1.2.3 World PVDF Resin for Lithium Batteries Pricing Trends (2021-2032)
- 1.3 World PVDF Resin for Lithium Batteries Production by Region (Based on Production Site)
 - 1.3.1 World PVDF Resin for Lithium Batteries Production Value by Region (2021-2032)
 - 1.3.2 World PVDF Resin for Lithium Batteries Production by Region (2021-2032)
 - 1.3.3 World PVDF Resin for Lithium Batteries Average Price by Region (2021-2032)
 - 1.3.4 North America PVDF Resin for Lithium Batteries Production (2021-2032)
 - 1.3.5 Europe PVDF Resin for Lithium Batteries Production (2021-2032)
 - 1.3.6 China PVDF Resin for Lithium Batteries Production (2021-2032)
 - 1.3.7 Japan PVDF Resin for Lithium Batteries Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 PVDF Resin for Lithium Batteries Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 PVDF Resin for Lithium Batteries Major Market Trends

2 DEMAND SUMMARY

- 2.1 World PVDF Resin for Lithium Batteries Demand (2021-2032)
- 2.2 World PVDF Resin for Lithium Batteries Consumption by Region
 - 2.2.1 World PVDF Resin for Lithium Batteries Consumption by Region (2021-2026)
 - 2.2.2 World PVDF Resin for Lithium Batteries Consumption Forecast by Region (2027-2032)
- 2.3 United States PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.4 China PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.5 Europe PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.6 Japan PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.7 South Korea PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.8 ASEAN PVDF Resin for Lithium Batteries Consumption (2021-2032)
- 2.9 India PVDF Resin for Lithium Batteries Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World PVDF Resin for Lithium Batteries Production Value by Manufacturer (2021-2026)

3.2 World PVDF Resin for Lithium Batteries Production by Manufacturer (2021-2026)

3.3 World PVDF Resin for Lithium Batteries Average Price by Manufacturer (2021-2026)

3.4 PVDF Resin for Lithium Batteries Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global PVDF Resin for Lithium Batteries Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for PVDF Resin for Lithium Batteries in 2025

3.5.3 Global Concentration Ratios (CR8) for PVDF Resin for Lithium Batteries in 2025

3.6 PVDF Resin for Lithium Batteries Market: Overall Company Footprint Analysis

3.6.1 PVDF Resin for Lithium Batteries Market: Region Footprint

3.6.2 PVDF Resin for Lithium Batteries Market: Company Product Type Footprint

3.6.3 PVDF Resin for Lithium Batteries Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: PVDF Resin for Lithium Batteries Production Value Comparison

4.1.1 United States VS China: PVDF Resin for Lithium Batteries Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: PVDF Resin for Lithium Batteries Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: PVDF Resin for Lithium Batteries Production Comparison

4.2.1 United States VS China: PVDF Resin for Lithium Batteries Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: PVDF Resin for Lithium Batteries Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: PVDF Resin for Lithium Batteries Consumption Comparison

4.3.1 United States VS China: PVDF Resin for Lithium Batteries Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: PVDF Resin for Lithium Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based PVDF Resin for Lithium Batteries Manufacturers and Market Share, 2021-2026

4.4.1 United States Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers PVDF Resin for Lithium Batteries Production Value (2021-2026)

4.4.3 United States Based Manufacturers PVDF Resin for Lithium Batteries Production (2021-2026)

4.5 China Based PVDF Resin for Lithium Batteries Manufacturers and Market Share

4.5.1 China Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers PVDF Resin for Lithium Batteries Production Value (2021-2026)

4.5.3 China Based Manufacturers PVDF Resin for Lithium Batteries Production (2021-2026)

4.6 Rest of World Based PVDF Resin for Lithium Batteries Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World PVDF Resin for Lithium Batteries Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Emulsion

5.2.2 Suspension

5.3 Market Segment by Type

5.3.1 World PVDF Resin for Lithium Batteries Production by Type (2021-2032)

5.3.2 World PVDF Resin for Lithium Batteries Production Value by Type (2021-2032)

5.3.3 World PVDF Resin for Lithium Batteries Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MOLECULAR MASS

6.1 World PVDF Resin for Lithium Batteries Market Size Overview by Molecular Mass: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Molecular Mass

6.2.1 High Molecular Mass

6.2.2 Medium Molecular Mass

6.2.3 Low Molecular Mass

6.3 Market Segment by Molecular Mass

6.3.1 World PVDF Resin for Lithium Batteries Production by Molecular Mass (2021-2032)

6.3.2 World PVDF Resin for Lithium Batteries Production Value by Molecular Mass (2021-2032)

6.3.3 World PVDF Resin for Lithium Batteries Average Price by Molecular Mass (2021-2032)

7 MARKET ANALYSIS BY BATTERY

7.1 World PVDF Resin for Lithium Batteries Market Size Overview by Battery: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Battery

7.2.1 For TLB

7.2.2 For LFP

7.3 Market Segment by Battery

7.3.1 World PVDF Resin for Lithium Batteries Production by Battery (2021-2032)

7.3.2 World PVDF Resin for Lithium Batteries Production Value by Battery (2021-2032)

7.3.3 World PVDF Resin for Lithium Batteries Average Price by Battery (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World PVDF Resin for Lithium Batteries Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Lithium Battery Binder

8.2.2 Lithium Battery Separator

8.3 Market Segment by Application

8.3.1 World PVDF Resin for Lithium Batteries Production by Application (2021-2032)

8.3.2 World PVDF Resin for Lithium Batteries Production Value by Application (2021-2032)

8.3.3 World PVDF Resin for Lithium Batteries Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Arkema

9.1.1 Arkema Details

9.1.2 Arkema Major Business

9.1.3 Arkema PVDF Resin for Lithium Batteries Product and Services

9.1.4 Arkema PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Arkema Recent Developments/Updates

9.1.6 Arkema Competitive Strengths & Weaknesses

9.2 Syensqo

9.2.1 Syensqo Details

9.2.2 Syensqo Major Business

9.2.3 Syensqo PVDF Resin for Lithium Batteries Product and Services

9.2.4 Syensqo PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Syensqo Recent Developments/Updates

9.2.6 Syensqo Competitive Strengths & Weaknesses

9.3 Zhejiang Juhua

9.3.1 Zhejiang Juhua Details

9.3.2 Zhejiang Juhua Major Business

9.3.3 Zhejiang Juhua PVDF Resin for Lithium Batteries Product and Services

9.3.4 Zhejiang Juhua PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Juhua Recent Developments/Updates

9.3.6 Zhejiang Juhua Competitive Strengths & Weaknesses

9.4 Zhejiang Fluorine

9.4.1 Zhejiang Fluorine Details

9.4.2 Zhejiang Fluorine Major Business

9.4.3 Zhejiang Fluorine PVDF Resin for Lithium Batteries Product and Services

9.4.4 Zhejiang Fluorine PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Zhejiang Fluorine Recent Developments/Updates

9.4.6 Zhejiang Fluorine Competitive Strengths & Weaknesses

9.5 Shanghai PTL New Energy Technology

9.5.1 Shanghai PTL New Energy Technology Details

9.5.2 Shanghai PTL New Energy Technology Major Business

9.5.3 Shanghai PTL New Energy Technology PVDF Resin for Lithium Batteries

Product and Services

9.5.4 Shanghai PTL New Energy Technology PVDF Resin for Lithium Batteries

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shanghai PTL New Energy Technology Recent Developments/Updates

9.5.6 Shanghai PTL New Energy Technology Competitive Strengths & Weaknesses

9.6 Dongyue Group

9.6.1 Dongyue Group Details

9.6.2 Dongyue Group Major Business

9.6.3 Dongyue Group PVDF Resin for Lithium Batteries Product and Services

9.6.4 Dongyue Group PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Dongyue Group Recent Developments/Updates

9.6.6 Dongyue Group Competitive Strengths & Weaknesses

9.7 Kureha

9.7.1 Kureha Details

9.7.2 Kureha Major Business

9.7.3 Kureha PVDF Resin for Lithium Batteries Product and Services

9.7.4 Kureha PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Kureha Recent Developments/Updates

9.7.6 Kureha Competitive Strengths & Weaknesses

9.8 Shandong Deyi

9.8.1 Shandong Deyi Details

9.8.2 Shandong Deyi Major Business

9.8.3 Shandong Deyi PVDF Resin for Lithium Batteries Product and Services

9.8.4 Shandong Deyi PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Shandong Deyi Recent Developments/Updates

9.8.6 Shandong Deyi Competitive Strengths & Weaknesses

9.9 Huayi 3F New Materials

9.9.1 Huayi 3F New Materials Details

9.9.2 Huayi 3F New Materials Major Business

9.9.3 Huayi 3F New Materials PVDF Resin for Lithium Batteries Product and Services

9.9.4 Huayi 3F New Materials PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.9.5 Huayi 3F New Materials Recent Developments/Updates
- 9.9.6 Huayi 3F New Materials Competitive Strengths & Weaknesses
- 9.10 Sinochem Lantian
 - 9.10.1 Sinochem Lantian Details
 - 9.10.2 Sinochem Lantian Major Business
 - 9.10.3 Sinochem Lantian PVDF Resin for Lithium Batteries Product and Services
 - 9.10.4 Sinochem Lantian PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Sinochem Lantian Recent Developments/Updates
 - 9.10.6 Sinochem Lantian Competitive Strengths & Weaknesses
- 9.11 Lecron Industrial
 - 9.11.1 Lecron Industrial Details
 - 9.11.2 Lecron Industrial Major Business
 - 9.11.3 Lecron Industrial PVDF Resin for Lithium Batteries Product and Services
 - 9.11.4 Lecron Industrial PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Lecron Industrial Recent Developments/Updates
 - 9.11.6 Lecron Industrial Competitive Strengths & Weaknesses
- 9.12 Zhejiang Yonghe Refrigerant
 - 9.12.1 Zhejiang Yonghe Refrigerant Details
 - 9.12.2 Zhejiang Yonghe Refrigerant Major Business
 - 9.12.3 Zhejiang Yonghe Refrigerant PVDF Resin for Lithium Batteries Product and Services
 - 9.12.4 Zhejiang Yonghe Refrigerant PVDF Resin for Lithium Batteries Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Zhejiang Yonghe Refrigerant Recent Developments/Updates
 - 9.12.6 Zhejiang Yonghe Refrigerant Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 PVDF Resin for Lithium Batteries Industry Chain
- 10.2 PVDF Resin for Lithium Batteries Upstream Analysis
 - 10.2.1 PVDF Resin for Lithium Batteries Core Raw Materials
 - 10.2.2 Main Manufacturers of PVDF Resin for Lithium Batteries Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 PVDF Resin for Lithium Batteries Production Mode
- 10.6 PVDF Resin for Lithium Batteries Procurement Model
- 10.7 PVDF Resin for Lithium Batteries Industry Sales Model and Sales Channels

10.7.1 PVDF Resin for Lithium Batteries Sales Model

10.7.2 PVDF Resin for Lithium Batteries Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World PVDF Resin for Lithium Batteries Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World PVDF Resin for Lithium Batteries Production Value by Region (2021-2026) & (USD Million)

Table 3. World PVDF Resin for Lithium Batteries Production Value by Region (2027-2032) & (USD Million)

Table 4. World PVDF Resin for Lithium Batteries Production Value Market Share by Region (2021-2026)

Table 5. World PVDF Resin for Lithium Batteries Production Value Market Share by Region (2027-2032)

Table 6. World PVDF Resin for Lithium Batteries Production by Region (2021-2026) & (Tons)

Table 7. World PVDF Resin for Lithium Batteries Production by Region (2027-2032) & (Tons)

Table 8. World PVDF Resin for Lithium Batteries Production Market Share by Region (2021-2026)

Table 9. World PVDF Resin for Lithium Batteries Production Market Share by Region (2027-2032)

Table 10. World PVDF Resin for Lithium Batteries Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World PVDF Resin for Lithium Batteries Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. PVDF Resin for Lithium Batteries Major Market Trends

Table 13. World PVDF Resin for Lithium Batteries Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World PVDF Resin for Lithium Batteries Consumption by Region (2021-2026) & (Tons)

Table 15. World PVDF Resin for Lithium Batteries Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World PVDF Resin for Lithium Batteries Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key PVDF Resin for Lithium Batteries Producers in 2025

Table 18. World PVDF Resin for Lithium Batteries Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key PVDF Resin for Lithium Batteries Producers in 2025

Table 20. World PVDF Resin for Lithium Batteries Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global PVDF Resin for Lithium Batteries Company Evaluation Quadrant

Table 22. World PVDF Resin for Lithium Batteries Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and PVDF Resin for Lithium Batteries Production Site of Key Manufacturer

Table 24. PVDF Resin for Lithium Batteries Market: Company Product Type Footprint

Table 25. PVDF Resin for Lithium Batteries Market: Company Product Application Footprint

Table 26. PVDF Resin for Lithium Batteries Competitive Factors

Table 27. PVDF Resin for Lithium Batteries New Entrant and Capacity Expansion Plans

Table 28. PVDF Resin for Lithium Batteries Mergers & Acquisitions Activity

Table 29. United States VS China PVDF Resin for Lithium Batteries Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China PVDF Resin for Lithium Batteries Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China PVDF Resin for Lithium Batteries Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers PVDF Resin for Lithium Batteries Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers PVDF Resin for Lithium Batteries Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers PVDF Resin for Lithium Batteries Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share (2021-2026)

Table 37. China Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers PVDF Resin for Lithium Batteries Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers PVDF Resin for Lithium Batteries Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers PVDF Resin for Lithium Batteries Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share (2021-2026)

Table 42. Rest of World Based PVDF Resin for Lithium Batteries Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share (2021-2026)

Table 47. World PVDF Resin for Lithium Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World PVDF Resin for Lithium Batteries Production by Type (2021-2026) & (Tons)

Table 49. World PVDF Resin for Lithium Batteries Production by Type (2027-2032) & (Tons)

Table 50. World PVDF Resin for Lithium Batteries Production Value by Type (2021-2026) & (USD Million)

Table 51. World PVDF Resin for Lithium Batteries Production Value by Type (2027-2032) & (USD Million)

Table 52. World PVDF Resin for Lithium Batteries Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World PVDF Resin for Lithium Batteries Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World PVDF Resin for Lithium Batteries Production Value by Molecular Mass, (USD Million), 2021 & 2025 & 2032

Table 55. World PVDF Resin for Lithium Batteries Production by Molecular Mass (2021-2026) & (Tons)

Table 56. World PVDF Resin for Lithium Batteries Production by Molecular Mass (2027-2032) & (Tons)

Table 57. World PVDF Resin for Lithium Batteries Production Value by Molecular Mass (2021-2026) & (USD Million)

Table 58. World PVDF Resin for Lithium Batteries Production Value by Molecular Mass (2027-2032) & (USD Million)

Table 59. World PVDF Resin for Lithium Batteries Average Price by Molecular Mass (2021-2026) & (US\$/Ton)

Table 60. World PVDF Resin for Lithium Batteries Average Price by Molecular Mass

(2027-2032) & (US\$/Ton)

Table 61. World PVDF Resin for Lithium Batteries Production Value by Battery, (USD Million), 2021 & 2025 & 2032

Table 62. World PVDF Resin for Lithium Batteries Production by Battery (2021-2026) & (Tons)

Table 63. World PVDF Resin for Lithium Batteries Production by Battery (2027-2032) & (Tons)

Table 64. World PVDF Resin for Lithium Batteries Production Value by Battery (2021-2026) & (USD Million)

Table 65. World PVDF Resin for Lithium Batteries Production Value by Battery (2027-2032) & (USD Million)

Table 66. World PVDF Resin for Lithium Batteries Average Price by Battery (2021-2026) & (US\$/Ton)

Table 67. World PVDF Resin for Lithium Batteries Average Price by Battery (2027-2032) & (US\$/Ton)

Table 68. World PVDF Resin for Lithium Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World PVDF Resin for Lithium Batteries Production by Application (2021-2026) & (Tons)

Table 70. World PVDF Resin for Lithium Batteries Production by Application (2027-2032) & (Tons)

Table 71. World PVDF Resin for Lithium Batteries Production Value by Application (2021-2026) & (USD Million)

Table 72. World PVDF Resin for Lithium Batteries Production Value by Application (2027-2032) & (USD Million)

Table 73. World PVDF Resin for Lithium Batteries Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World PVDF Resin for Lithium Batteries Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Arkema Basic Information, Manufacturing Base and Competitors

Table 76. Arkema Major Business

Table 77. Arkema PVDF Resin for Lithium Batteries Product and Services

Table 78. Arkema PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Arkema Recent Developments/Updates

Table 80. Arkema Competitive Strengths & Weaknesses

Table 81. Syensqo Basic Information, Manufacturing Base and Competitors

Table 82. Syensqo Major Business

- Table 83. Syensqo PVDF Resin for Lithium Batteries Product and Services
- Table 84. Syensqo PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Syensqo Recent Developments/Updates
- Table 86. Syensqo Competitive Strengths & Weaknesses
- Table 87. Zhejiang Juhua Basic Information, Manufacturing Base and Competitors
- Table 88. Zhejiang Juhua Major Business
- Table 89. Zhejiang Juhua PVDF Resin for Lithium Batteries Product and Services
- Table 90. Zhejiang Juhua PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Zhejiang Juhua Recent Developments/Updates
- Table 92. Zhejiang Juhua Competitive Strengths & Weaknesses
- Table 93. Zhejiang Fluorine Basic Information, Manufacturing Base and Competitors
- Table 94. Zhejiang Fluorine Major Business
- Table 95. Zhejiang Fluorine PVDF Resin for Lithium Batteries Product and Services
- Table 96. Zhejiang Fluorine PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Zhejiang Fluorine Recent Developments/Updates
- Table 98. Zhejiang Fluorine Competitive Strengths & Weaknesses
- Table 99. Shanghai PTL New Energy Technology Basic Information, Manufacturing Base and Competitors
- Table 100. Shanghai PTL New Energy Technology Major Business
- Table 101. Shanghai PTL New Energy Technology PVDF Resin for Lithium Batteries Product and Services
- Table 102. Shanghai PTL New Energy Technology PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Shanghai PTL New Energy Technology Recent Developments/Updates
- Table 104. Shanghai PTL New Energy Technology Competitive Strengths & Weaknesses
- Table 105. Dongyue Group Basic Information, Manufacturing Base and Competitors
- Table 106. Dongyue Group Major Business
- Table 107. Dongyue Group PVDF Resin for Lithium Batteries Product and Services
- Table 108. Dongyue Group PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Dongyue Group Recent Developments/Updates
- Table 110. Dongyue Group Competitive Strengths & Weaknesses
- Table 111. Kureha Basic Information, Manufacturing Base and Competitors
- Table 112. Kureha Major Business
- Table 113. Kureha PVDF Resin for Lithium Batteries Product and Services
- Table 114. Kureha PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Kureha Recent Developments/Updates
- Table 116. Kureha Competitive Strengths & Weaknesses
- Table 117. Shandong Deyi Basic Information, Manufacturing Base and Competitors
- Table 118. Shandong Deyi Major Business
- Table 119. Shandong Deyi PVDF Resin for Lithium Batteries Product and Services
- Table 120. Shandong Deyi PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Shandong Deyi Recent Developments/Updates
- Table 122. Shandong Deyi Competitive Strengths & Weaknesses
- Table 123. Huayi 3F New Materials Basic Information, Manufacturing Base and Competitors
- Table 124. Huayi 3F New Materials Major Business
- Table 125. Huayi 3F New Materials PVDF Resin for Lithium Batteries Product and Services
- Table 126. Huayi 3F New Materials PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Huayi 3F New Materials Recent Developments/Updates
- Table 128. Huayi 3F New Materials Competitive Strengths & Weaknesses
- Table 129. Sinochem Lantian Basic Information, Manufacturing Base and Competitors
- Table 130. Sinochem Lantian Major Business
- Table 131. Sinochem Lantian PVDF Resin for Lithium Batteries Product and Services
- Table 132. Sinochem Lantian PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Sinochem Lantian Recent Developments/Updates
- Table 134. Sinochem Lantian Competitive Strengths & Weaknesses
- Table 135. Lecron Industrial Basic Information, Manufacturing Base and Competitors
- Table 136. Lecron Industrial Major Business
- Table 137. Lecron Industrial PVDF Resin for Lithium Batteries Product and Services

Table 138. Lecron Industrial PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Lecron Industrial Recent Developments/Updates

Table 140. Lecron Industrial Competitive Strengths & Weaknesses

Table 141. Zhejiang Yonghe Refrigerant Basic Information, Manufacturing Base and Competitors

Table 142. Zhejiang Yonghe Refrigerant Major Business

Table 143. Zhejiang Yonghe Refrigerant PVDF Resin for Lithium Batteries Product and Services

Table 144. Zhejiang Yonghe Refrigerant PVDF Resin for Lithium Batteries Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Zhejiang Yonghe Refrigerant Recent Developments/Updates

Table 146. Zhejiang Yonghe Refrigerant Competitive Strengths & Weaknesses

Table 147. Global Key Players of PVDF Resin for Lithium Batteries Upstream (Raw Materials)

Table 148. Global PVDF Resin for Lithium Batteries Typical Customers

Table 149. PVDF Resin for Lithium Batteries Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. PVDF Resin for Lithium Batteries Picture

Figure 2. World PVDF Resin for Lithium Batteries Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World PVDF Resin for Lithium Batteries Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World PVDF Resin for Lithium Batteries Production (2021-2032) & (Tons)

Figure 5. World PVDF Resin for Lithium Batteries Average Price (2021-2032) & (US\$/Ton)

Figure 6. World PVDF Resin for Lithium Batteries Production Value Market Share by Region (2021-2032)

Figure 7. World PVDF Resin for Lithium Batteries Production Market Share by Region (2021-2032)

Figure 8. North America PVDF Resin for Lithium Batteries Production (2021-2032) & (Tons)

Figure 9. Europe PVDF Resin for Lithium Batteries Production (2021-2032) & (Tons)

Figure 10. China PVDF Resin for Lithium Batteries Production (2021-2032) & (Tons)

Figure 11. Japan PVDF Resin for Lithium Batteries Production (2021-2032) & (Tons)

Figure 12. PVDF Resin for Lithium Batteries Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 15. World PVDF Resin for Lithium Batteries Consumption Market Share by Region (2021-2032)

Figure 16. United States PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 17. China PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 18. Europe PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 19. Japan PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 20. South Korea PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 21. ASEAN PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 22. India PVDF Resin for Lithium Batteries Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of PVDF Resin for Lithium Batteries by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for PVDF Resin for Lithium

Batteries Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for PVDF Resin for Lithium Batteries Markets in 2025

Figure 26. United States VS China: PVDF Resin for Lithium Batteries Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: PVDF Resin for Lithium Batteries Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: PVDF Resin for Lithium Batteries Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share 2025

Figure 30. China Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share 2025

Figure 31. Rest of World Based Manufacturers PVDF Resin for Lithium Batteries Production Market Share 2025

Figure 32. World PVDF Resin for Lithium Batteries Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World PVDF Resin for Lithium Batteries Production Value Market Share by Type in 2025

Figure 34. Emulsion

Figure 35. Suspension

Figure 36. World PVDF Resin for Lithium Batteries Production Market Share by Type (2021-2032)

Figure 37. World PVDF Resin for Lithium Batteries Production Value Market Share by Type (2021-2032)

Figure 38. World PVDF Resin for Lithium Batteries Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World PVDF Resin for Lithium Batteries Production Value by Molecular Mass, (USD Million), 2021 & 2025 & 2032

Figure 40. World PVDF Resin for Lithium Batteries Production Value Market Share by Molecular Mass in 2025

Figure 41. High Molecular Mass

Figure 42. Medium Molecular Mass

Figure 43. Low Molecular Mass

Figure 44. World PVDF Resin for Lithium Batteries Production Market Share by Molecular Mass (2021-2032)

Figure 45. World PVDF Resin for Lithium Batteries Production Value Market Share by Molecular Mass (2021-2032)

Figure 46. World PVDF Resin for Lithium Batteries Average Price by Molecular Mass

(2021-2032) & (US\$/Ton)

Figure 47. World PVDF Resin for Lithium Batteries Production Value by Battery, (USD Million), 2021 & 2025 & 2032

Figure 48. World PVDF Resin for Lithium Batteries Production Value Market Share by Battery in 2025

Figure 49. For TLB

Figure 50. For LFP

Figure 51. World PVDF Resin for Lithium Batteries Production Market Share by Battery (2021-2032)

Figure 52. World PVDF Resin for Lithium Batteries Production Value Market Share by Battery (2021-2032)

Figure 53. World PVDF Resin for Lithium Batteries Average Price by Battery (2021-2032) & (US\$/Ton)

Figure 54. World PVDF Resin for Lithium Batteries Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World PVDF Resin for Lithium Batteries Production Value Market Share by Application in 2025

Figure 56. Lithium Battery Binder

Figure 57. Lithium Battery Separator

Figure 58. World PVDF Resin for Lithium Batteries Production Market Share by Application (2021-2032)

Figure 59. World PVDF Resin for Lithium Batteries Production Value Market Share by Application (2021-2032)

Figure 60. World PVDF Resin for Lithium Batteries Average Price by Application (2021-2032) & (US\$/Ton)

Figure 61. PVDF Resin for Lithium Batteries Industry Chain

Figure 62. PVDF Resin for Lithium Batteries Procurement Model

Figure 63. PVDF Resin for Lithium Batteries Sales Model

Figure 64. PVDF Resin for Lithium Batteries Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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