

Global PVDF Granule Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PVDF Granule market size is expected to reach \$ 12817 million by 2032, rising at a market growth of 20.8% CAGR during the forecast period (2026-2032).

PVDF Granule refers to a thermoplastic fluoropolymer material existing in granular form, polymerized from vinylidene fluoride monomers. It possesses excellent chemical resistance, weather resistance, electrical insulation properties, and mechanical strength. Compared to powdered products, granular PVDF is more suitable for extrusion, injection molding, and other thermoforming processes, facilitating continuous processing and large-scale production. This material is widely used in chemical pipelines and valves, wire and cable insulation, lithium battery adhesives, and photovoltaic backsheets, and is one of the important varieties of high-performance engineering plastics. In 2025, the consumption of granular PVDF was approximately 247,809 tons.

Granular polyvinylidene fluoride (PVDF) is a high-performance fluorinated thermoplastic engineering plastic supplied in granular form, polymerized from vinylidene fluoride monomers. This material possesses excellent chemical resistance, weather resistance, electrical insulation properties, and mechanical strength, and is widely used in chemical equipment, wires and cables, photovoltaic modules, and lithium batteries. Compared to powdered PVDF, granular products are more suitable for thermal processing processes such as extrusion, injection molding, and blow molding, facilitating large-scale continuous production and forming an important part of the high-end engineering materials market.

In recent years, the rapid development of the global new energy industry has become the core driving force for the growth in demand for granular PVDF. The expansion of the

lithium-ion battery market has increased the demand for PVDF in binders and separator coatings; in the photovoltaic industry, PVDF, as a key material for backsheets, has also seen its demand expand with the increase in installed capacity. Simultaneously, in the fields of chemical corrosion protection, semiconductor equipment, and water treatment, PVDF continues to replace traditional materials due to its corrosion resistance and high stability. The dual drivers of new energy and high-end manufacturing ensure that the granular PVDF market maintains high growth elasticity.

From a product structure perspective, granular PVDF can be divided into general-purpose and high-performance grades based on molecular weight and processing performance. High molecular weight products possess superior mechanical strength and heat resistance, making them suitable for high-end industrial applications; medium molecular weight products are widely used in the wire and cable and photovoltaic fields. As application areas continue to expand, market demand for high-purity, low-impurity, and stable-processing products continues to increase, driving the industry towards higher added value.

In terms of the industry chain, upstream are fluorochemical raw material and monomer suppliers, midstream are PVDF polymerization and granulation production enterprises, and downstream are battery manufacturers, photovoltaic module manufacturers, chemical equipment manufacturers, and cable manufacturers. The industry has high technological barriers and capital investment requirements, and the production process involves polymerization process control and quality stability management. The global market exhibits a high degree of regional concentration, with Asia, especially China, holding a significant position in terms of production capacity and demand scale, while Europe and North America have technological advantages in high-end application markets.

Looking ahead, the global granular PVDF market will be driven by three major factors: first, the continued expansion of the new energy vehicle and energy storage industries; second, the increased material demand brought about by the growth of photovoltaic installed capacity; and third, the increased demand for corrosion-resistant materials in high-end industrial sectors. Market growth is reflected not only in increased demand, but also in the increased proportion of high-performance products and the growth in unit value.

This report studies the global PVDF Granule production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PVDF Granule total production and demand, 2021-2032, (Kilotons)

Global PVDF Granule total production value, 2021-2032, (USD Million)

Global PVDF Granule production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global PVDF Granule consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: PVDF Granule domestic production, consumption, key domestic manufacturers and share

Global PVDF Granule production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global PVDF Granule production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global PVDF Granule production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global PVDF Granule 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 Granule market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Granule Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PVDF Granule Market, Segmentation by Type:

Emulsion

Suspension

Global PVDF Granule Market, Segmentation by Molecular Mass:

High Molecular Mass

Medium Molecular Mass

Low Molecular Mass

Global PVDF Granule Market, Segmentation by Processing Method:

Extrusion Grade

Injection Molding Grade

Global PVDF Granule Market, Segmentation by Application:

Lithium Batteries

Architectural Coatings

Photovoltaic Backsheet

Injection Molding

Others

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

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