

# Global Polyvinylidene Difluoride (PVDF) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Polyvinylidene Difluoride (PVDF) market size is expected to reach \$ 13784 million by 2032, rising at a market growth of 22.3% CAGR during the forecast period (2026-2032).

In 2025, global Polyvinylidene Difluoride (PVDF) production reached approximately 247.8 thousand tons, with an average price of about 11,116 USD per ton.

Polyvinylidene Difluoride, commonly abbreviated as PVDF, is a high-performance, semi-crystalline fluoropolymer known for excellent chemical resistance, weatherability, thermal stability, and mechanical strength. PVDF is produced mainly by polymerizing vinylidene fluoride monomer, and upstream inputs typically include fluorine-based intermediates, vinylidene fluoride, polymerization initiators, surfactants or dispersants, and processing aids. Typical manufacturing lines cover polymerization, solid-liquid separation, washing, drying, and resin finishing, followed by compounding and pelletizing for injection molding grades, or dispersion preparation and film-grade finishing for coatings and photovoltaic backsheet applications. In the downstream value chain, PVDF is widely used as a binder in lithium-ion batteries to provide adhesion and electrochemical stability, as a key resin in photovoltaic backsheets and films for UV and humid-heat resistance, and in architectural coatings for long-term color retention and outdoor durability. It is also used in water treatment applications such as membranes, piping, and fittings, and in injection-molded chemical-resistant parts. Industry gross margins vary by grade and certification barrier, typically around 15%-35%, with battery-grade and photovoltaic-grade PVDF generally higher than standard coating and general-purpose grades.

PVDF demand is supported by a combination of mature industrial uses and fast-growing energy-related applications. Lithium-ion batteries have become a major growth engine as higher-energy cathodes and tighter processing requirements drive demand for consistent binder performance, low impurities, and stable batch-to-batch quality.

Photovoltaic backsheets and films remain an important outlet where long-term UV exposure and humid-heat aging performance are critical, while architectural coatings value PVDF for premium exterior durability and color retention. Water treatment membranes and chemical-resistant piping and fittings provide steady baseline demand, and injection molding applications expand PVDF usage into high-value engineered parts.

Supply and pricing are closely tied to fluorochemical feedstock availability, process know-how, and capacity expansion cycles. Producers compete by improving polymerization control, particle morphology, molecular weight distribution, and by building downstream compounding, dispersion, and film-grade finishing capabilities to better serve differentiated applications. Profitability can be cyclical due to raw material volatility and end-market mix shifts, but higher-spec battery and photovoltaic grades generally enjoy stronger margins because of qualification requirements and tighter tolerances. Regionally, demand is concentrated in battery and solar manufacturing hubs and in regions with strong construction and water infrastructure investment, while supply chains increasingly emphasize compliance, traceability, and environmental management.

This report studies the global Polyvinylidene Difluoride (PVDF) production, demand, key manufacturers, and key regions.

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

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

Global Polyvinylidene Difluoride (PVDF) total production and demand, 2021-2032, (Tons)

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

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

Global Polyvinylidene Difluoride (PVDF) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Polyvinylidene Difluoride (PVDF) domestic production, consumption, key domestic manufacturers and share

Global Polyvinylidene Difluoride (PVDF) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Polyvinylidene Difluoride (PVDF) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Polyvinylidene Difluoride (PVDF) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Polyvinylidene Difluoride (PVDF) 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 Polyvinylidene Difluoride (PVDF) 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 Polyvinylidene Difluoride (PVDF) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyvinylidene Difluoride (PVDF) Market, Segmentation by Type:

Emulsion PVDF

Suspension PVDF

Global Polyvinylidene Difluoride (PVDF) Market, Segmentation by Form:

PVDF Powder

PVDF Granule

Global Polyvinylidene Difluoride (PVDF) Market, Segmentation by Molecular Structure:

Crystalline PVDF

Amorphous PVDF

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

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