

# Global Polyvinylidene Difluoride (PVDF) Market Growth 2026-2032

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## Abstracts

The global Polyvinylidene Difluoride (PVDF) market size is predicted to grow from US\$ 2695 million in 2025 to US\$ 14024 million in 2032; it is expected to grow at a CAGR of 23.7% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Polyvinylidene Difluoride (PVDF) 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 Polyvinylidene Difluoride (PVDF) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polyvinylidene Difluoride (PVDF) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Polyvinylidene Difluoride (PVDF) 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 Polyvinylidene Difluoride (PVDF).

This report presents a comprehensive overview, market shares, and growth opportunities of Polyvinylidene Difluoride (PVDF) market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

Emulsion PVDF

Suspension PVDF

**Segmentation by Form:**

PVDF Powder

PVDF Granule

**Segmentation by Molecular Structure:**

Crystalline PVDF

Amorphous PVDF

**Segmentation by Application:**

Lithium Batteries

Architectural Coatings

Photovoltaic Backsheet

Injection Molding

Others

**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 Polyvinylidene Difluoride (PVDF) market?

What factors are driving Polyvinylidene Difluoride (PVDF) market growth, globally and by region?

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

How do Polyvinylidene Difluoride (PVDF) market opportunities vary by end market size?

How does Polyvinylidene Difluoride (PVDF) break out by Type, by Application?

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