

Global Fluorine Film for PV Backsheet Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fluorine Film for PV Backsheet market size is expected to reach \$ 497 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

In 2025, global Fluorine Film for PV Backsheet production reached approximately 850 million Sqm, with an average global market price of around US\$420 per K Sqm.

Fluorine films for photovoltaic backplanes mainly include PVDF film (polyvinylidene fluoride) and PVF film (polyvinyl fluoride). The commercialized PVF film (polyvinyl fluoride film) has a fluorine content of only about 29%. Pure PVF pellets are translucent and basically have no ability to block ultraviolet rays. Inorganic fillers must be added to block ultraviolet rays.

The global market for fluorine film used in photovoltaic backsheets is intrinsically linked to the expansion of the solar industry. It is currently dominated by a few international chemical giants, while Chinese domestic suppliers are continuously improving their production capacity and technological capabilities, playing an increasingly significant role in the global supply chain. In terms of product types, polyvinylidene fluoride (PVDF) and polyvinyl fluoride (PVF) are the mainstream technological routes. Market demand grows in sync with new photovoltaic installations, with stringent requirements for weather resistance, barrier properties, and long-term reliability. Regarding trends, technological evolution is progressing towards higher performance and more diversified applications. The adoption of bifacial modules drives demand for double-sided fluorine-containing backsheets. Simultaneously, cost-reduction pressure pushes films towards thinner and lighter profiles. Furthermore, expansion into complex environments like floating solar and agrivoltaics creates demand for enhanced film properties such as corrosion and hydrolysis resistance, posing new technical challenges. Market opportunities stem primarily from sustained PV installation growth under the global energy transition, creating broad demand. Secondly, China's strategic focus on new

materials and new energy industries during its '15th Five-Year Plan' period provides a favorable policy environment for domestic R&D and investment. Finally, downstream PV technology iterations continually generate new requirements for backsheet materials, creating opportunities for companies with rapid R&D response. However, development faces obstacles including fluctuating raw material prices impacting costs and profits, high technical barriers from complex synthesis and film-forming processes and stringent certifications, uncertainties in the international trade environment potentially affecting supply chains and market access, and persistent cost-reduction pressure from the PV industry testing manufacturers' cost control and innovation capabilities.

This report studies the global Fluorine Film for PV Backsheet production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluorine Film for PV Backsheet 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 Fluorine Film for PV Backsheet that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fluorine Film for PV Backsheet total production and demand, 2021-2032, (K Sqm)

Global Fluorine Film for PV Backsheet total production value, 2021-2032, (USD Million)

Global Fluorine Film for PV Backsheet production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Fluorine Film for PV Backsheet consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Fluorine Film for PV Backsheet domestic production, consumption, key domestic manufacturers and share

Global Fluorine Film for PV Backsheet production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Fluorine Film for PV Backsheet production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Fluorine Film for PV Backsheet production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Fluorine Film for PV Backsheet 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 DuPont, Arkema, AGC Chemicals, SKC, 3M, Solvay, Denka, Kureha Corporation, Hangzhou Foremost, Jiangsu Zhongtian Technology, 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 Fluorine Film for PV Backsheet market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sqm) 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 Fluorine Film for PV Backsheet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fluorine Film for PV Backsheet Market, Segmentation by Type:

PVDF

PVF

ETFE

Others

Global Fluorine Film for PV Backsheet Market, Segmentation by Color:

Colored Film

Transparent Film

Global Fluorine Film for PV Backsheet Market, Segmentation by Thickness:

Thickness 50 ?m

Global Fluorine Film for PV Backsheet Market, Segmentation by Application:

Co-extruded PV Backsheet

Composite PV Backsheet

Companies Profiled:

DuPont

Arkema

AGC Chemicals

SKC

3M

Solvay

Denka

Kureha Corporation

Hangzhou Foremost

Jiangsu Zhongtian Technology

Shanghai HIUV New Materials

Key Questions Answered:

1. How big is the global Fluorine Film for PV Backsheet market?
2. What is the demand of the global Fluorine Film for PV Backsheet market?
3. What is the year over year growth of the global Fluorine Film for PV Backsheet market?
4. What is the production and production value of the global Fluorine Film for PV Backsheet market?
5. Who are the key producers in the global Fluorine Film for PV Backsheet market?
6. What are the growth factors driving the market demand?

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