

Global Fluorine-Free Solar Backsheet Market Growth 2025-2031

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Abstracts

The global Fluorine-Free Solar Backsheet market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

Fluorine-free solar backsheet is a photovoltaic backsheet without fluorine film. As an important part of isolating materials such as battery sheets and encapsulation film inside the module from the external environment, it is required to have excellent functions in terms of insulation, barrier and heat resistance. Fluorine-free backsheets are relatively poor in terms of their material properties in terms of resistance to damp heat, dry heat, and ultraviolet rays, and are mainly used in photovoltaic modules with relatively low weather resistance requirements.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits,

production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.426 GW.

LP Information, Inc. (LPI) ' newest research report, the “Fluorine-Free Solar Backsheet Industry Forecast” looks at past sales and reviews total world Fluorine-Free Solar Backsheet sales in 2024, providing a comprehensive analysis by region and market sector of projected Fluorine-Free Solar Backsheet sales for 2025 through 2031. With Fluorine-Free Solar Backsheet sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Fluorine-Free Solar Backsheet industry.

This Insight Report provides a comprehensive analysis of the global Fluorine-Free Solar Backsheet 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 Fluorine-Free Solar Backsheet portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fluorine-Free Solar Backsheet market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fluorine-Free Solar Backsheet 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 Fluorine-Free Solar Backsheet.

This report presents a comprehensive overview, market shares, and growth opportunities of Fluorine-Free Solar Backsheet market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Co-Extruded Fluorine-Free Solar Backsheet

Composite Fluorine-Free Solar Backsheet

Segmentation by Application:

Industrial

Commercial

Residential

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.

DuPont

Arkema S.A.

SKC

Coveme

KREMPEL

3M

Toray Films

Crown Advanced Material

Cybrid Technologies

Ningbo Solartron Technology

HANGZHOU FIRST APPLIED MATERIAL

Hubei Huitian New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fluorine-Free Solar Backsheet market?

What factors are driving Fluorine-Free Solar Backsheet market growth, globally and by region?

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

How do Fluorine-Free Solar Backsheet market opportunities vary by end market size?

How does Fluorine-Free Solar Backsheet break out by Type, by Application?

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