

Solar Backsheet Market –Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028

Segmented By Type (Fluoropolymer, Non-fluoropolymer), By Installation Techniques (Flat Roof Solar, Pitched Roof Solar, Ground Mount Solar, Others), By Thickness (Less than 100mm, 100-500mm, & Greater than 500mm), By Application (Commercial, Industrial, Residential & Utilities), By Region

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Abstracts

Global Solar Backsheet Market is anticipated to grow at a steady pace during the forecast period, 2024-2028. Due to limits on traditional fossil fuel energy sources and worldwide initiatives to minimise carbon emissions, the market is anticipated to expand throughout the projected period. Moreover, solar energy is one of the renewable energy sources with the quickest rate of growth due to the decrease in the price of solar panels and related project components. The back sheet's main function is to shield the PV module from UV rays, any kind of moisture infiltration, electrical system insulation, and to increase the solar PV module's endurance. The use of solar back sheets has increased, and new products such as solar air conditioning, solar chargers, solar inverters, solar chimneys, solar-powered refrigerators, solar cookers, solar dryers, solar streetlights, solar traffic lights, solar cars, and solar buses have all been developed as a result of the rapidly expanding global solar PV market.

One of the well-known categories with the largest market share is the fluoropolymer backsheet, which is more expensive than non-fluoropolymer. It provides improved protection against environmental hazards such as UV rays, dampness, and vapour infiltration. Furthermore, customers in emerging and undeveloped nations are

anticipated to supply off-grid facilities to power isolated locations and islands with solar power, opening up a substantial opportunity for the market for solar projects, particularly off-grid projects.

Favorable Government Policies & Huge Rise in Solar Panel Installation are the Factors Fueling the Market Growth

One of the main reasons propelling the market's expansion is the huge rise in solar panel installations throughout the world. Additionally, the market expansion is being fueled by the introduction of favorable government policies supporting different solar energy projects.

Solar roof tops with effective backsheets are in increasing demand throughout the residential, commercial, and industrial sectors as a result of the desire for sustainable energy sources and the emphasis on utility-scale projects. As a result, the market is anticipating a promising future.

The creation of improved fluoropolymer backsheets is one of several product developments that are working as growth-promoting elements. These variations provide improved hydrolytic stability and a resilience to severe weather. Additional factors are projected to fuel the market, such as the growing construction of micro-grid networks to fulfil the rising off-grid energy demands and significant research and development (R&D) efforts.

However, the lack of pure silicon available to produce solar PV cells, is one of the main market constraints. Even though silicon dioxide is widely accessible, it costs more to produce pure silicone since it takes a lot of energy to remove the oxygen from the molecule.

Rising Investment in Renewable Energy Generation

SolarPower Europe estimates that during the past ten years, solar power increased quickly, from 30.13 GW in 2011 to 138.2 GW in 2020. Utility-scale projects and the market for fluoropolymer solar backsheets were the main drivers of this growth.

An Indian state-owned firm, Bharat Electricronics Limited, issued an invitation to bid for a 2.86 MW grid-connected solar power project in the Maharashtra towns of Amravati and Akola in 2021. The solar backsheet should also feature three-layered structures, according to the tender document. A fluoropolymer UV-resistant polymer should be

used for the inner layer, a polyester-based material for the intermediate layer, and a fluoropolymer for the outside layer.

As a result, the sector is expected to see widespread use in solar energy projects since it offers more advantages than non-fluoropolymers. Additionally, it is anticipated that throughout the forecast period, mass manufacturing would reduce costs and expand the market.

Market Segmentation

The Global Solar Backsheet Market is divided on the basis of type, installation technique, thickness, and application. Based on Type, the market is further split into fluoropolymer and non-fluoropolymer. Based on installation techniques, the market is divided into flat roof solar, pitched roof solar, ground mount solar, and others. Based on thickness, the market is segmented into less than 100mm, 100-500mm, & greater than 500mm. Based on application, the market is further segmented into commercial, industrial, residential & utilities.

Market Players

Major market players in the global solar backsheet market are Honeywell Corporation, Agfa, DuPont, Jolywood, Isovoltaic, 3M, Dunmore Corporation, Krempel, Flexcon, and Hangzhou Sunhome Solar Backsheet Co. Ltd.

Report Scope:

In this report, the Global Solar Backsheet Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Solar Backsheet Market, By Type:

Fluoropolymer

Non-fluoropolymer

Solar Backsheet Market, By Installation Techniques:

Flat Roof Solar

Pitched Roof Solar

Ground Mount Solar

Others

Solar Backsheet Market, By Thickness:

Less than 100mm

100-500mm

Greater than 500mm

Solar Backsheet Market, By Application:

Commercial

Industrial

Residential & Utilities

Solar Backsheet Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Singapore

Malaysia

Europe

Germany

United Kingdom

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East

Saudi Arabia

South Africa

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Solar Backsheet Market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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