

# Global Solar Transparent Backsheet Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solar Transparent Backsheet market size is expected to reach \$ 960 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Solar Transparent Backsheet is a high-transmittance encapsulation material specifically designed for the rear side of bifacial photovoltaic modules. Its primary function is to protect the solar cells from environmental stressors while allowing back-side incident light to pass through, thereby enhancing energy yield. These backsheets typically utilize high-transparency polyester (PET) or transparent fluoropolymer films (e.g., transparent PVDF) as the base substrate, combined with specialized anti-UV and anti-aging coatings. Compared to rear glass (inorganic backsheets), solar transparent backsheets offer distinct advantages such as lighter weight, better breathability (facilitating the escape of acetic acid), and ease of installation, which significantly reduces the overall weight of the module. To further optimize power output, advanced versions often incorporate reflective grid technology to bounce light from cell gaps back to the front side of the cells.

In 2025, global Solar Transparent Backsheet production reached approximately 208 million sq.m.

Solar transparent backsheets are an emerging segment within the photovoltaic backsheet market, distinguished by their ability to transmit light through the rear side of the module. This unique feature makes them particularly suitable for bifacial PV modules, building-integrated photovoltaics (BIPV), and applications where both energy generation and visual or lighting considerations are important. As the PV industry evolves from conventional monofacial designs toward bifacial generation and integrated system solutions, transparent backsheets are gradually moving from niche concepts to commercially viable products with growing market relevance.

From a technical perspective, solar transparent backsheets are typically based on high-

transparency polymer materials such as PET, ETFE, EVA, or other optically clear composites. Through single-layer or multilayer structures, these materials are engineered to balance light transmittance with essential properties such as mechanical strength, electrical insulation, and environmental resistance. Compared with traditional opaque or white backsheets, transparent backsheets allow reflected and scattered light to reach the rear side of solar cells, which is especially beneficial for bifacial modules and can contribute to higher overall energy yield. In addition, in applications such as facades, carports, greenhouses, and architectural glazing, transparent backsheets support both power generation and daylight transmission.

From a market demand standpoint, the adoption of solar transparent backsheets is driven by three primary application areas. The first is the rapidly expanding bifacial module market, where transparent backsheets serve as a key enabling component. As bifacial technology gains wider acceptance in utility-scale and distributed PV projects, demand for transparent backsheets is expected to grow accordingly. The second area is BIPV and urban PV applications, where aesthetic design, translucency, and functional integration are critical considerations. The third involves emerging use cases such as agrivoltaics and ecological PV systems, where maintaining a certain level of light transmission is essential to support crops or natural ecosystems beneath the modules. In terms of industry maturity and competition, solar transparent backsheets are still at a relatively early stage compared with conventional backsheet products. Challenges remain in achieving long-term durability, weather resistance, and cost efficiency, particularly under harsh conditions involving high UV exposure, heat, and humidity. Issues such as material aging, discoloration, and mechanical degradation must be carefully addressed through material innovation and extensive field validation. As a result, transparent backsheets are currently more common in premium, demonstration, or specialized projects rather than mass-market installations.

Overall, solar transparent backsheets should be viewed not as direct replacements for traditional opaque backsheets, but as differentiated solutions tailored to specific module designs and application scenarios. With continued growth in bifacial modules, BIPV, and diversified PV applications, transparent backsheets are well positioned to achieve steady expansion within niche markets, with long-term success dependent on ongoing improvements in material reliability and the balance between performance and cost. This report studies the global Solar Transparent Backsheet production, demand, key manufacturers, and key regions.

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

## Highlights and key features of the study

Global Solar Transparent Backsheet total production and demand, 2021-2032, (Sq m)

Global Solar Transparent Backsheet total production value, 2021-2032, (USD Million)

Global Solar Transparent Backsheet production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Solar Transparent Backsheet consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Solar Transparent Backsheet domestic production, consumption, key domestic manufacturers and share

Global Solar Transparent Backsheet production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Solar Transparent Backsheet production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Solar Transparent Backsheet production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Solar Transparent 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 Cybrid Technologies, Jolywood, Coveme, Luckyfilm, Taiflex, Toppan, Zhongtian Technologies Group, Crown Advanced Material, Fujifilm, Hangzhou First PV Materia, 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 Solar Transparent Backsheet market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) 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 Solar Transparent Backsheet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solar Transparent Backsheet Market, Segmentation by Type:

Fluoropolymer

Non-Fluoropolymer

#### Global Solar Transparent Backsheet Market, Segmentation by Functional Features:

High Barrier Type

Mesh/Grid Type

Others

#### Global Solar Transparent Backsheet Market, Segmentation by Thickness:

0.10 mm~0.25 mm

0.25 mm~ 0.30 mm

0.30 mm~ 0.35 mm

#### Global Solar Transparent Backsheet Market, Segmentation by Application:

Standard PV Modules

High-Temperature Environments

Others

**Companies Profiled:**

Cybrid Technologies

Jolywood

Coveme

Luckyfilm

Taiflex

Toppan

Zhongtian Technologies Group

Crown Advanced Material

Fujifilm

Hangzhou First PV Materia

Krempel GmbH

Toyal

Ventura

HuiTian

Vishakha Renewables

**Key Questions Answered:**

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

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