

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

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Abstracts

The global Solar Backsheet Film market size is expected to reach \$ 3241 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032). In 2025, global Solar Backsheet Film production reached approximately 970 million Sqm, with an average global market price of around US\$2.3 per Sqm. Solar backsheet films are installed on the backside of solar modules to prevent penetration of water, shock and UV rays, and to protect cells and modules. To achieve long-term durability, film processing technologies such as coating/lamination and co-extrusion are employed, such as fluororesin films, weather-resistant PET, and weather-resistant polyolefin films. The global market for solar-cell backsheet film is being driven by record-scale PV installations and high module shipments, and is currently undergoing simultaneous capacity expansion and performance-driven upgrading. According to company annual reports and industry statistics, global PV additions in 2024 were roughly 530 GW, while China added about 277.57 GW, creating a concentrated and sustained demand base for backsheets. The market is shifting from a cost-first approach toward high-performance requirements?weather resistance, low yellowing, low water-vapor transmission and regulatory compliance?which is accelerating polymer formulation development, advanced coating and lamination processes, and tighter production quality control. Long-term demand is further supported by cumulative installed base, module repowering/replacement cycles and the move to larger, higher-power modules, all of which favor functionalized backsheets with superior barrier and durability properties. Key opportunities arise from global net-zero commitments, national PV support policies, and growth across distributed and utility-scale markets that together expand demand for low-yellowing, salt-fog-resistant and high-barrier films. Principal constraints include cyclical module price competition and overcapacity that compress margins, grid integration and curtailment limits that can slow installations in some regions, and tightening regulation on fluorinated materials that raises reformulation and

compliance costs. In the near term the backsheet market will remain sensitive to installation cycles; over the medium-to-long term it is set to evolve toward higher-performance, more sustainable materials?suppliers that balance advanced material properties, environmental compliance and scalable, cost-effective manufacturing will capture stronger module-level purchasing share and pricing power.

This report studies the global Solar Backsheet Film production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solar Backsheet Film total production and demand, 2021-2032, (K Sqm)

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

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

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

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

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

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

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

This report profiles key players in the global Solar Backsheet Film 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 Jollywood, Hangzhou First, Cybrid Technologies, Coveme, Lucky Film, Crown Advanced Material, Huitian New Materials, Suzhou YISHENG Optical Material, Ningbo Exciton Technology, Taiflex, 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 Backsheet Film 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 Solar Backsheet Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Backsheet Film Market, Segmentation by Type:

Fluorine-Containing Film

Non-Fluorine Film

Global Solar Backsheet Film Market, Segmentation by Process Type:

Coating Type

Laminated Type

Co-Extruded Type

Global Solar Backsheet Film Market, Segmentation by Color:

White Back Film

Black Back Film

Transparent Back Film

Global Solar Backsheet Film Market, Segmentation by Application:

Monofacial PV Modules

Bifacial PV Modules

Companies Profiled:

Jolywood

Hangzhou First

Cybrid Technologies

Coveme

Lucky Film

Crown Advanced Material

Huitian New Materials

Suzhou YISHENG Optical Material

Ningbo Exciton Technology

Taiflex

Toppan

Fujifilm

Krempel GmbH

Key Questions Answered:

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

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