

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

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Abstracts

The global Solar Battery Backsheet Film market size is expected to reach \$ 373 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

In 2025, global solar cell backsheet film production reached approximately 38935 k sqm, the average price is 6 usd/sqm. Solar cell backsheet film is a multifunctional composite film located on the outermost layer of a photovoltaic module, closely attached to the back of the solar cell. It mainly serves to provide electrical insulation, prevent moisture and oxygen from entering, and protect the solar cell and encapsulation materials from ultraviolet radiation and environmental corrosion. It is usually composed of a weather-resistant outer layer, a water-blocking inner layer, and an inner adhesive layer, bonded together with an adhesive. It has excellent weather resistance, insulation, water resistance, and dimensional stability, and is one of the key encapsulation materials to ensure the long-term reliability and power generation efficiency of photovoltaic modules.

Market Concentration and Major Players:

Internationally, the market for solar cell backsheet films is highly concentrated, mainly in developed countries such as Europe, the United States, and Japan. Large manufacturers include Coveme and SKC. Domestically, the solar cell backsheet film market still has significant room for growth.

Manufacturing Processes and Market Trends:

The manufacturing of solar cell backsheet films primarily employs three processes:

composite, coating, and co-extrusion. The composite process uses adhesives to bond a fluoropolymer film to a PET base film. The coating process involves coating a fluoropolymer resin onto a PET base film and then drying and curing it. Co-extrusion utilizes multiple extruders to form multiple layers of thermoplastic resin in a single die process. All these processes involve substrate pretreatment, precision coating or lamination, curing, and winding.

At the market level, the industry is facing a structural adjustment in demand for traditional backsheets due to the popularization of double-glass modules. The proportion of transparent backsheets is increasing because they are compatible with bifacial power generation modules. Fluorine-free or low-fluorine formulas, recyclable materials and co-extrusion solvent-free processes have become the focus of research and development due to environmental protection and cost reduction pressures. Products are also being upgraded towards functionalization in terms of high water resistance, weather resistance and compatibility with high-efficiency battery technologies such as TOPCon in order to meet the needs of differentiated environmental applications.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Solar Battery Backsheet Film production by Transparent, production, value,

CAGR, 2021-2032, (USD Million) & (K Sqm)

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

This report profiles key players in the global Solar Battery 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 SKC (South Korea), Dunmore (USA), Krempel (Germany), Coveme (Italy), ZTT International Limited (China), Endurans (USA), AI Technology, Inc. (USA), FLEXcon (USA), Isovoltaic (Austria), Felix Schoeller (Germany), 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 Battery 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 Transparent, 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 Battery Backsheet Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Battery Backsheet Film Market, Segmentation by Transparent:

Transparent

Opaque

Global Solar Battery Backsheet Film Market, Segmentation by Materials:

PVF

PVDF

PET

PA

FEVE

Global Solar Battery Backsheet Film Market, Segmentation by Structure:

TPT

TPE

KPK

Others

Global Solar Battery Backsheet Film Market, Segmentation by Application:

Crystalline Silicon Solar Panel

Thin Film Solar Panel

Companies Profiled:

SKC (South Korea)

Dunmore (USA)

Krempel (Germany)

Coveme (Italy)

ZTT International Limited (China)

Endurans (USA)

AI Technology, Inc. (USA)

FLEXcon (USA)

Isovoltaic (Austria)

Felix Schoeller (Germany)

Toyo Aluminium (Japan)

Keiwa (Japan)

RenewSys (India)

Vishakha Renewables (India)

Hanwha Advanced Materials (South Korea)

Key Questions Answered:

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

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