

# Global Solar Cell Encapsulation Material Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solar Cell Encapsulation Material market size is expected to reach \$ 11397 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

Solar cell encapsulation uses transparent polymer films, primarily Ethylene Vinyl Acetate (EVA), to laminate and protect solar cells, providing crucial adhesion, moisture/dust barrier, light transmission, and durability against UV/weathering. Other key materials include Polyolefin Elastomer (POE) for high humidity/double-glass panels, and specialized Silicone or EPE (EVA+POE+EVA) for specific high-efficiency cells like TOPCon, ensuring performance and longevity.

Solar cell encapsulation materials are critical components in photovoltaic (PV) module manufacturing, providing protection against environmental degradation while ensuring optical transmission and electrical insulation. The global market is experiencing robust growth driven by the massive expansion of solar energy capacity, technological advancements in module design, and increasing durability requirements.

The solar encapsulation material market is undergoing a significant transformation driven by: Technology Transition, Geographic Rebalancing, Sustainability Imperative, Performance Demands. The market presents a classic innovator's dilemma: EVA's cost advantage versus POE's performance benefits. The likely outcome is a segmented market with EVA maintaining presence in cost-sensitive applications while POE dominates high-efficiency segments. New materials may emerge to address specific gaps, particularly for next-generation technologies like perovskite tandems.

With solar expected to become the world's largest electricity source by 2040, encapsulation materials will remain a critical, high-growth segment within the broader renewable energy materials ecosystem.

This report studies the global Solar Cell Encapsulation Material demand, key companies, and key regions.

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

### **Highlights and key features of the study**

Global Solar Cell Encapsulation Material total market, 2021-2032, (USD Million)

Global Solar Cell Encapsulation Material total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Solar Cell Encapsulation Material total market, key domestic companies, and share, (USD Million)

Global Solar Cell Encapsulation Material revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solar Cell Encapsulation Material total market by Type, CAGR, 2021-2032, (USD Million)

Global Solar Cell Encapsulation Material total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Solar Cell Encapsulation Material market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include First PV, HIUV, Sveck, Betterial, Lucent, Tianyang, SSPC, STR Solar, Mitsui Chemicals, SKC, 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 Cell Encapsulation Material market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Cell Encapsulation Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Cell Encapsulation Material Market, Segmentation by Type:

Polymer-Based Encapsulation Materials

Inorganic Encapsulation Materials

Global Solar Cell Encapsulation Material Market, Segmentation by Encapsulation Structure:

Front Encapsulation Materials

Interlayer Encapsulation Materials

Back Encapsulation Materials

Global Solar Cell Encapsulation Material Market, Segmentation by Functional Characteristics:

UV-Resistant Encapsulation Materials

High-Barrier Encapsulation Materials

Thermal Conductive Encapsulation Materials

Global Solar Cell Encapsulation Material Market, Segmentation by Application:

Ground-Mounted Power Station

Rooftop Photovoltaic

BIPV

Flexible/Portable Solar Module

Others

### **Companies Profiled:**

First PV

HIUV

Sveck

Bettrial

Lucent

Tianyang

SSPC

STR Solar

Mitsui Chemicals

SKC

Vishakha Renewables

RenewSys

TPI Polene

Cybrid

Dow

#### Key Questions Answered

1. How big is the global Solar Cell Encapsulation Material market?
2. What is the demand of the global Solar Cell Encapsulation Material market?
3. What is the year over year growth of the global Solar Cell Encapsulation Material market?
4. What is the total value of the global Solar Cell Encapsulation Material market?
5. Who are the Major Players in the global Solar Cell Encapsulation Material market?
6. What are the growth factors driving the market demand?

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