

Global Encapsulant Materials for PV Modules Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Encapsulant Materials for PV Modules market size is expected to reach \$ 7105.5 million by 2029, rising at a market growth of 1.8% CAGR during the forecast period (2023-2029).

Global key players of encapsulant materials for PV modules include First, HIUV, Sveck, Cybrid Technologies, Betterial, etc. The top five players hold a share about 82%. Asia-Pacific is the largest market, has a share about 94%, followed by North America and Europe, with share 3% and 2%, separately.

An encapsulant is used to provide adhesion between the solar cells, the top surface and the rear surface of the PV module. The encapsulant should be stable at elevated temperatures and high UV exposure. It should also be optically transparent and should have a low thermal resistance. EVA (ethyl vinyl acetate) is the most commonly used encapsulant material. EVA comes in thin sheets which are inserted between the solar cells and the top surface and the rear surface. This sandwich is then heated to 150 °C to polymerize the EVA and bond the module together. Encapsulant materials used in photovoltaic (PV) modules serve multiple purposes; it provides optical coupling of PV cells and protection against environmental stress. Polymers must perform these functions under prolonged periods of high temperature, humidity, and UV radiation. When PV panels were first developed in the 1960s and the 1970s, the dominant encapsulants were based on polydimethyl siloxane (PDMS). Ethylene-co-vinyl acetate (EVA) is currently the dominant encapsulant chosen for PV applications, not because it has the best combination of properties, but because it is an economical option with an established history of acceptable durability. Getting new products onto the market is challenging because there is no room for dramatic improvements, and one must balance the initial cost and performance with the unknowns of long-term service life.

Recently, there has been renewed interest in using alternative encapsulant materials with some significant manufacturers switching from EVA to polyolefin elastomer-based (POE) alternatives. The material typically used for this application is Ethylene-Vinyl Acetate (EVA). It had made such a name for itself in the market that it was synonymous with encapsulation, enjoying a monopoly for over three decades. Polyolefin (POE), however, is evolving strongly as an alternative, especially with the growing popularity of bifacial technology. Though bifacial is growing at a faster pace, monofacial market is still larger, meaning EVA still dominates this sector.

This report studies the global Encapsulant Materials for PV Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Encapsulant Materials for PV Modules, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Encapsulant Materials for PV Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Encapsulant Materials for PV Modules total production and demand, 2018-2029, (M Sqm)

Global Encapsulant Materials for PV Modules total production value, 2018-2029, (USD Million)

Global Encapsulant Materials for PV Modules production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (M Sqm)

Global Encapsulant Materials for PV Modules consumption by region & country, CAGR, 2018-2029 & (M Sqm)

U.S. VS China: Encapsulant Materials for PV Modules domestic production, consumption, key domestic manufacturers and share

Global Encapsulant Materials for PV Modules production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (M Sqm)

Global Encapsulant Materials for PV Modules production by Type, production, value,

CAGR, 2018-2029, (USD Million) & (M Sqm)

Global Encapsulant Materials for PV Modules production by Application production, value, CAGR, 2018-2029, (USD Million) & (M Sqm).

This reports profiles key players in the global Encapsulant Materials for PV Modules 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 First, Sveck, HIUV, Betterial, Tianyang, STR Solar, Lucent CleanEnergy, Mitsui Chemicals and Vishakha Renewables, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Encapsulant Materials for PV Modules market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Sqm) and average price (US\$/Sqm) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Encapsulant Materials for PV Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Encapsulant Materials for PV Modules Market, Segmentation by Type

EVA Film

POE Film

Others

Global Encapsulant Materials for PV Modules Market, Segmentation by Application

Monofacial Module

Bifacial Module

Companies Profiled:

First

Sveck

HIUV

Betterial

Tianyang

STR Solar

Lucent CleanEnergy

Mitsui Chemicals

Vishakha Renewables

RenewSys

Cybrid Technologies

TPI Polene

3M

Hanwha

SSPC

LUSHAN

Key Questions Answered

1. How big is the global Encapsulant Materials for PV Modules market?
2. What is the demand of the global Encapsulant Materials for PV Modules market?
3. What is the year over year growth of the global Encapsulant Materials for PV Modules market?
4. What is the production and production value of the global Encapsulant Materials for PV Modules market?
5. Who are the key producers in the global Encapsulant Materials for PV Modules market?
6. What are the growth factors driving the market demand?

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