

Encapsulant Materials for PV Modules Industry Research Report 2023

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Abstracts

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.

Highlights

The global Encapsulant Materials for PV Modules market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2022, at a CAGR of % during 2023

and 2029.

Global key players of Encapsulant Materials for PV Modules include First, Sveck, HIUV, Bbetter, Hanwha and Mitsui Chemicals, etc. Top five players occupy for a share about 84%. China is the largest market, with a share about 81%, followed by North America and Japan. In terms of product, EVA Film is the largest segment, with a share over 73%. In terms of application, Monofacial Module is the largest market, with a share over 50%.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Encapsulant Materials for PV Modules, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Encapsulant Materials for PV Modules.

The Encapsulant Materials for PV Modules market size, estimations, and forecasts are provided in terms of output/shipments (m?) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Encapsulant Materials for PV Modules market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Encapsulant Materials for PV Modules manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions,

collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2018-2023. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

First

Sveck

HIUV

Bbetter

Tianyang

STR Solar

Lucent CleanEnergy

Mitsui Chemicals

Vishakha Renewables

RenewSys

Cybrid Technologies

TPI Polene

3M

Hanwha

SSPC

LUSHAN

Product Type Insights

Global markets are presented by Encapsulant Materials for PV Modules type, along with growth forecasts through 2029. Estimates on production and value are based on the price in the supply chain at which the Encapsulant Materials for PV Modules are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows production and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

Encapsulant Materials for PV Modules segment by Type

EVA Film

POE Film

Other

Application Insights

This report has provided the market size (production and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Encapsulant Materials for PV Modules market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Encapsulant Materials for PV Modules market.

Encapsulant Materials for PV Modules segment by Application

Monofacial Module

Bifacial Module

Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with estimates for 2023 and forecast value for 2029.

North America

United States

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Encapsulant Materials for PV Modules market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply

chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Encapsulant Materials for PV Modules market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Encapsulant Materials for PV Modules and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Encapsulant Materials for PV Modules industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Encapsulant Materials for PV Modules.

This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Encapsulant Materials for PV Modules manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Encapsulant Materials for PV Modules by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Encapsulant Materials for PV Modules in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by

manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Encapsulant Materials for PV Modules by Type
 - 2.2.1 Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
 - 1.2.2 EVA Film
 - 1.2.3 POE Film
 - 1.2.4 Other
- 2.3 Encapsulant Materials for PV Modules by Application
 - 2.3.1 Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)
 - 2.3.2 Monofacial Module
 - 2.3.3 Bifacial Module
- 2.4 Global Market Growth Prospects
 - 2.4.1 Global Encapsulant Materials for PV Modules Production Value Estimates and Forecasts (2018-2029)
 - 2.4.2 Global Encapsulant Materials for PV Modules Production Capacity Estimates and Forecasts (2018-2029)
 - 2.4.3 Global Encapsulant Materials for PV Modules Production Estimates and Forecasts (2018-2029)
 - 2.4.4 Global Encapsulant Materials for PV Modules Market Average Price (2018-2029)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Encapsulant Materials for PV Modules Production by Manufacturers (2018-2023)
- 3.2 Global Encapsulant Materials for PV Modules Production Value by Manufacturers

(2018-2023)

3.3 Global Encapsulant Materials for PV Modules Average Price by Manufacturers
(2018-2023)

3.4 Global Encapsulant Materials for PV Modules Industry Manufacturers Ranking,
2021 VS 2022 VS 2023

3.5 Global Encapsulant Materials for PV Modules Key Manufacturers, Manufacturing
Sites & Headquarters

3.6 Global Encapsulant Materials for PV Modules Manufacturers, Product Type &
Application

3.7 Global Encapsulant Materials for PV Modules Manufacturers, Date of Enter into This
Industry

3.8 Global Encapsulant Materials for PV Modules Market CR5 and HHI

3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 First

4.1.1 First Encapsulant Materials for PV Modules Company Information

4.1.2 First Encapsulant Materials for PV Modules Business Overview

4.1.3 First Encapsulant Materials for PV Modules Production, Value and Gross Margin
(2018-2023)

4.1.4 First Product Portfolio

4.1.5 First Recent Developments

4.2 Sveck

4.2.1 Sveck Encapsulant Materials for PV Modules Company Information

4.2.2 Sveck Encapsulant Materials for PV Modules Business Overview

4.2.3 Sveck Encapsulant Materials for PV Modules Production, Value and Gross
Margin (2018-2023)

4.2.4 Sveck Product Portfolio

4.2.5 Sveck Recent Developments

4.3 HIUV

4.3.1 HIUV Encapsulant Materials for PV Modules Company Information

4.3.2 HIUV Encapsulant Materials for PV Modules Business Overview

4.3.3 HIUV Encapsulant Materials for PV Modules Production, Value and Gross
Margin (2018-2023)

4.3.4 HIUV Product Portfolio

4.3.5 HIUV Recent Developments

4.4 Bbetter

4.4.1 Bbetter Encapsulant Materials for PV Modules Company Information

- 4.4.2 Bbetter Encapsulant Materials for PV Modules Business Overview
- 4.4.3 Bbetter Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)
- 4.4.4 Bbetter Product Portfolio
- 4.4.5 Bbetter Recent Developments
- 4.5 Tianyang
 - 4.5.1 Tianyang Encapsulant Materials for PV Modules Company Information
 - 4.5.2 Tianyang Encapsulant Materials for PV Modules Business Overview
 - 4.5.3 Tianyang Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)
 - 4.5.4 Tianyang Product Portfolio
 - 4.5.5 Tianyang Recent Developments
- 4.6 STR Solar
 - 4.6.1 STR Solar Encapsulant Materials for PV Modules Company Information
 - 4.6.2 STR Solar Encapsulant Materials for PV Modules Business Overview
 - 4.6.3 STR Solar Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)
 - 4.6.4 STR Solar Product Portfolio
 - 4.6.5 STR Solar Recent Developments
- 4.7 Lucent CleanEnergy
 - 4.7.1 Lucent CleanEnergy Encapsulant Materials for PV Modules Company Information
 - 4.7.2 Lucent CleanEnergy Encapsulant Materials for PV Modules Business Overview
 - 4.7.3 Lucent CleanEnergy Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)
 - 4.7.4 Lucent CleanEnergy Product Portfolio
 - 4.7.5 Lucent CleanEnergy Recent Developments
- 4.8 Mitsui Chemicals
 - 4.8.1 Mitsui Chemicals Encapsulant Materials for PV Modules Company Information
 - 4.8.2 Mitsui Chemicals Encapsulant Materials for PV Modules Business Overview
 - 4.8.3 Mitsui Chemicals Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)
 - 4.8.4 Mitsui Chemicals Product Portfolio
 - 4.8.5 Mitsui Chemicals Recent Developments
- 4.9 Vishakha Renewables
 - 4.9.1 Vishakha Renewables Encapsulant Materials for PV Modules Company Information
 - 4.9.2 Vishakha Renewables Encapsulant Materials for PV Modules Business Overview
 - 4.9.3 Vishakha Renewables Encapsulant Materials for PV Modules Production, Value

and Gross Margin (2018-2023)

4.9.4 Vishakha Renewables Product Portfolio

4.9.5 Vishakha Renewables Recent Developments

4.10 RenewSys

4.10.1 RenewSys Encapsulant Materials for PV Modules Company Information

4.10.2 RenewSys Encapsulant Materials for PV Modules Business Overview

4.10.3 RenewSys Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

4.10.4 RenewSys Product Portfolio

4.10.5 RenewSys Recent Developments

7.11 Cybrid Technologies

7.11.1 Cybrid Technologies Encapsulant Materials for PV Modules Company Information

7.11.2 Cybrid Technologies Encapsulant Materials for PV Modules Business Overview

7.11.3 Cybrid Technologies Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.11.4 Cybrid Technologies Product Portfolio

7.11.5 Cybrid Technologies Recent Developments

7.12 TPI Polene

7.12.1 TPI Polene Encapsulant Materials for PV Modules Company Information

7.12.2 TPI Polene Encapsulant Materials for PV Modules Business Overview

7.12.3 TPI Polene Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.12.4 TPI Polene Product Portfolio

7.12.5 TPI Polene Recent Developments

7.13 3M

7.13.1 3M Encapsulant Materials for PV Modules Company Information

7.13.2 3M Encapsulant Materials for PV Modules Business Overview

7.13.3 3M Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.13.4 3M Product Portfolio

7.13.5 3M Recent Developments

7.14 Hanwha

7.14.1 Hanwha Encapsulant Materials for PV Modules Company Information

7.14.2 Hanwha Encapsulant Materials for PV Modules Business Overview

7.14.3 Hanwha Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.14.4 Hanwha Product Portfolio

7.14.5 Hanwha Recent Developments

7.15 SSPC

7.15.1 SSPC Encapsulant Materials for PV Modules Company Information

7.15.2 SSPC Encapsulant Materials for PV Modules Business Overview

7.15.3 SSPC Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.15.4 SSPC Product Portfolio

7.15.5 SSPC Recent Developments

7.16 LUSHAN

7.16.1 LUSHAN Encapsulant Materials for PV Modules Company Information

7.16.2 LUSHAN Encapsulant Materials for PV Modules Business Overview

7.16.3 LUSHAN Encapsulant Materials for PV Modules Production, Value and Gross Margin (2018-2023)

7.16.4 LUSHAN Product Portfolio

7.16.5 LUSHAN Recent Developments

5 GLOBAL ENCAPSULANT MATERIALS FOR PV MODULES PRODUCTION BY REGION

5.1 Global Encapsulant Materials for PV Modules Production Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

5.2 Global Encapsulant Materials for PV Modules Production by Region: 2018-2029

5.2.1 Global Encapsulant Materials for PV Modules Production by Region: 2018-2023

5.2.2 Global Encapsulant Materials for PV Modules Production Forecast by Region (2024-2029)

5.3 Global Encapsulant Materials for PV Modules Production Value Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

5.4 Global Encapsulant Materials for PV Modules Production Value by Region: 2018-2029

5.4.1 Global Encapsulant Materials for PV Modules Production Value by Region: 2018-2023

5.4.2 Global Encapsulant Materials for PV Modules Production Value Forecast by Region (2024-2029)

5.5 Global Encapsulant Materials for PV Modules Market Price Analysis by Region (2018-2023)

5.6 Global Encapsulant Materials for PV Modules Production and Value, YOY Growth

5.6.1 North America Encapsulant Materials for PV Modules Production Value Estimates and Forecasts (2018-2029)

5.6.2 Europe Encapsulant Materials for PV Modules Production Value Estimates and Forecasts (2018-2029)

5.6.3 China Encapsulant Materials for PV Modules Production Value Estimates and Forecasts (2018-2029)

5.6.4 Japan Encapsulant Materials for PV Modules Production Value Estimates and Forecasts (2018-2029)

6 GLOBAL ENCAPSULANT MATERIALS FOR PV MODULES CONSUMPTION BY REGION

6.1 Global Encapsulant Materials for PV Modules Consumption Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

6.2 Global Encapsulant Materials for PV Modules Consumption by Region (2018-2029)

6.2.1 Global Encapsulant Materials for PV Modules Consumption by Region: 2018-2029

6.2.2 Global Encapsulant Materials for PV Modules Forecasted Consumption by Region (2024-2029)

6.3 North America

6.3.1 North America Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.3.2 North America Encapsulant Materials for PV Modules Consumption by Country (2018-2029)

6.3.3 United States

6.3.4 Canada

6.4 Europe

6.4.1 Europe Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.4.2 Europe Encapsulant Materials for PV Modules Consumption by Country (2018-2029)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.5.2 Asia Pacific Encapsulant Materials for PV Modules Consumption by Country (2018-2029)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.6.2 Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption by Country (2018-2029)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

7 SEGMENT BY TYPE

7.1 Global Encapsulant Materials for PV Modules Production by Type (2018-2029)

7.1.1 Global Encapsulant Materials for PV Modules Production by Type (2018-2029) & (m?)

7.1.2 Global Encapsulant Materials for PV Modules Production Market Share by Type (2018-2029)

7.2 Global Encapsulant Materials for PV Modules Production Value by Type (2018-2029)

7.2.1 Global Encapsulant Materials for PV Modules Production Value by Type (2018-2029) & (US\$ Million)

7.2.2 Global Encapsulant Materials for PV Modules Production Value Market Share by Type (2018-2029)

7.3 Global Encapsulant Materials for PV Modules Price by Type (2018-2029)

8 SEGMENT BY APPLICATION

8.1 Global Encapsulant Materials for PV Modules Production by Application (2018-2029)

8.1.1 Global Encapsulant Materials for PV Modules Production by Application (2018-2029) & (m?)

8.1.2 Global Encapsulant Materials for PV Modules Production by Application (2018-2029) & (m?)

8.2 Global Encapsulant Materials for PV Modules Production Value by Application

(2018-2029)

8.2.1 Global Encapsulant Materials for PV Modules Production Value by Application (2018-2029) & (US\$ Million)

8.2.2 Global Encapsulant Materials for PV Modules Production Value Market Share by Application (2018-2029)

8.3 Global Encapsulant Materials for PV Modules Price by Application (2018-2029)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

9.1 Encapsulant Materials for PV Modules Value Chain Analysis

9.1.1 Encapsulant Materials for PV Modules Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Encapsulant Materials for PV Modules Production Mode & Process

9.2 Encapsulant Materials for PV Modules Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Encapsulant Materials for PV Modules Distributors

9.2.3 Encapsulant Materials for PV Modules Customers

10 GLOBAL ENCAPSULANT MATERIALS FOR PV MODULES ANALYZING MARKET DYNAMICS

10.1 Encapsulant Materials for PV Modules Industry Trends

10.2 Encapsulant Materials for PV Modules Industry Drivers

10.3 Encapsulant Materials for PV Modules Industry Opportunities and Challenges

10.4 Encapsulant Materials for PV Modules Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER

List Of Tables

LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Encapsulant Materials for PV Modules Production by Manufacturers (m?) & (2018-2023)

Table 6. Global Encapsulant Materials for PV Modules Production Market Share by Manufacturers

Table 7. Global Encapsulant Materials for PV Modules Production Value by Manufacturers (US\$ Million) & (2018-2023)

Table 8. Global Encapsulant Materials for PV Modules Production Value Market Share by Manufacturers (2018-2023)

Table 9. Global Encapsulant Materials for PV Modules Average Price (US\$/m?) of Key Manufacturers (2018-2023)

Table 10. Global Encapsulant Materials for PV Modules Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

Table 11. Global Encapsulant Materials for PV Modules Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Encapsulant Materials for PV Modules by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2022)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. First Encapsulant Materials for PV Modules Company Information

Table 16. First Business Overview

Table 17. First Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 18. First Product Portfolio

Table 19. First Recent Developments

Table 20. Sveck Encapsulant Materials for PV Modules Company Information

Table 21. Sveck Business Overview

Table 22. Sveck Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 23. Sveck Product Portfolio

Table 24. Sveck Recent Developments

- Table 25. HIUV Encapsulant Materials for PV Modules Company Information
- Table 26. HIUV Business Overview
- Table 27. HIUV Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 28. HIUV Product Portfolio
- Table 29. HIUV Recent Developments
- Table 30. Bbetter Encapsulant Materials for PV Modules Company Information
- Table 31. Bbetter Business Overview
- Table 32. Bbetter Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 33. Bbetter Product Portfolio
- Table 34. Bbetter Recent Developments
- Table 35. Tianyang Encapsulant Materials for PV Modules Company Information
- Table 36. Tianyang Business Overview
- Table 37. Tianyang Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 38. Tianyang Product Portfolio
- Table 39. Tianyang Recent Developments
- Table 40. STR Solar Encapsulant Materials for PV Modules Company Information
- Table 41. STR Solar Business Overview
- Table 42. STR Solar Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 43. STR Solar Product Portfolio
- Table 44. STR Solar Recent Developments
- Table 45. Lucent CleanEnergy Encapsulant Materials for PV Modules Company Information
- Table 46. Lucent CleanEnergy Business Overview
- Table 47. Lucent CleanEnergy Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 48. Lucent CleanEnergy Product Portfolio
- Table 49. Lucent CleanEnergy Recent Developments
- Table 50. Mitsui Chemicals Encapsulant Materials for PV Modules Company Information
- Table 51. Mitsui Chemicals Business Overview
- Table 52. Mitsui Chemicals Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)
- Table 53. Mitsui Chemicals Product Portfolio
- Table 54. Mitsui Chemicals Recent Developments
- Table 55. Vishakha Renewables Encapsulant Materials for PV Modules Company

Information

Table 56. Vishakha Renewables Business Overview

Table 57. Vishakha Renewables Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 58. Vishakha Renewables Product Portfolio

Table 59. Vishakha Renewables Recent Developments

Table 60. RenewSys Encapsulant Materials for PV Modules Company Information

Table 61. RenewSys Business Overview

Table 62. RenewSys Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 63. RenewSys Product Portfolio

Table 64. RenewSys Recent Developments

Table 65. Cybrid Technologies Encapsulant Materials for PV Modules Company Information

Table 66. Cybrid Technologies Business Overview

Table 67. Cybrid Technologies Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 68. Cybrid Technologies Product Portfolio

Table 69. Cybrid Technologies Recent Developments

Table 70. TPI Polene Encapsulant Materials for PV Modules Company Information

Table 71. TPI Polene Business Overview

Table 72. TPI Polene Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 73. TPI Polene Product Portfolio

Table 74. TPI Polene Recent Developments

Table 75. 3M Encapsulant Materials for PV Modules Company Information

Table 76. 3M Business Overview

Table 77. 3M Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 78. 3M Product Portfolio

Table 79. 3M Recent Developments

Table 80. Hanwha Encapsulant Materials for PV Modules Company Information

Table 81. Hanwha Business Overview

Table 82. Hanwha Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 83. Hanwha Product Portfolio

Table 84. Hanwha Recent Developments

Table 85. Hanwha Encapsulant Materials for PV Modules Company Information

Table 86. SSPC Business Overview

Table 87. SSPC Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 88. SSPC Product Portfolio

Table 89. SSPC Recent Developments

Table 90. LUSHAN Encapsulant Materials for PV Modules Company Information

Table 91. LUSHAN Encapsulant Materials for PV Modules Production (m?), Value (US\$ Million), Price (US\$/m?) and Gross Margin (2018-2023)

Table 92. LUSHAN Product Portfolio

Table 93. LUSHAN Recent Developments

Table 94. Global Encapsulant Materials for PV Modules Production Comparison by Region: 2018 VS 2022 VS 2029 (m?)

Table 95. Global Encapsulant Materials for PV Modules Production by Region (2018-2023) & (m?)

Table 96. Global Encapsulant Materials for PV Modules Production Market Share by Region (2018-2023)

Table 97. Global Encapsulant Materials for PV Modules Production Forecast by Region (2024-2029) & (m?)

Table 98. Global Encapsulant Materials for PV Modules Production Market Share Forecast by Region (2024-2029)

Table 99. Global Encapsulant Materials for PV Modules Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Table 100. Global Encapsulant Materials for PV Modules Production Value by Region (2018-2023) & (US\$ Million)

Table 101. Global Encapsulant Materials for PV Modules Production Value Market Share by Region (2018-2023)

Table 102. Global Encapsulant Materials for PV Modules Production Value Forecast by Region (2024-2029) & (US\$ Million)

Table 103. Global Encapsulant Materials for PV Modules Production Value Market Share Forecast by Region (2024-2029)

Table 104. Global Encapsulant Materials for PV Modules Market Average Price (US\$/m?) by Region (2018-2023)

Table 105. Global Encapsulant Materials for PV Modules Consumption Comparison by Region: 2018 VS 2022 VS 2029 (m?)

Table 106. Global Encapsulant Materials for PV Modules Consumption by Region (2018-2023) & (m?)

Table 107. Global Encapsulant Materials for PV Modules Consumption Market Share by Region (2018-2023)

Table 108. Global Encapsulant Materials for PV Modules Forecasted Consumption by Region (2024-2029) & (m?)

Table 109. Global Encapsulant Materials for PV Modules Forecasted Consumption Market Share by Region (2024-2029)

Table 110. North America Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (m?)

Table 111. North America Encapsulant Materials for PV Modules Consumption by Country (2018-2023) & (m?)

Table 112. North America Encapsulant Materials for PV Modules Consumption by Country (2024-2029) & (m?)

Table 113. Europe Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (m?)

Table 114. Europe Encapsulant Materials for PV Modules Consumption by Country (2018-2023) & (m?)

Table 115. Europe Encapsulant Materials for PV Modules Consumption by Country (2024-2029) & (m?)

Table 116. Asia Pacific Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (m?)

Table 117. Asia Pacific Encapsulant Materials for PV Modules Consumption by Country (2018-2023) & (m?)

Table 118. Asia Pacific Encapsulant Materials for PV Modules Consumption by Country (2024-2029) & (m?)

Table 119. Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (m?)

Table 120. Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption by Country (2018-2023) & (m?)

Table 121. Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption by Country (2024-2029) & (m?)

Table 122. Global Encapsulant Materials for PV Modules Production by Type (2018-2023) & (m?)

Table 123. Global Encapsulant Materials for PV Modules Production by Type (2024-2029) & (m?)

Table 124. Global Encapsulant Materials for PV Modules Production Market Share by Type (2018-2023)

Table 125. Global Encapsulant Materials for PV Modules Production Market Share by Type (2024-2029)

Table 126. Global Encapsulant Materials for PV Modules Production Value by Type (2018-2023) & (US\$ Million)

Table 127. Global Encapsulant Materials for PV Modules Production Value by Type (2024-2029) & (US\$ Million)

Table 128. Global Encapsulant Materials for PV Modules Production Value Market

Share by Type (2018-2023)

Table 129. Global Encapsulant Materials for PV Modules Production Value Market

Share by Type (2024-2029)

Table 130. Global Encapsulant Materials for PV Modules Price by Type (2018-2023) & (US\$/m²)

Table 131. Global Encapsulant Materials for PV Modules Price by Type (2024-2029) & (US\$/m²)

Table 132. Global Encapsulant Materials for PV Modules Production by Application (2018-2023) & (m²)

Table 133. Global Encapsulant Materials for PV Modules Production by Application (2024-2029) & (m²)

Table 134. Global Encapsulant Materials for PV Modules Production Market Share by Application (2018-2023)

Table 135. Global Encapsulant Materials for PV Modules Production Market Share by Application (2024-2029)

Table 136. Global Encapsulant Materials for PV Modules Production Value by Application (2018-2023) & (US\$ Million)

Table 137. Global Encapsulant Materials for PV Modules Production Value by Application (2024-2029) & (US\$ Million)

Table 138. Global Encapsulant Materials for PV Modules Production Value Market Share by Application (2018-2023)

Table 139. Global Encapsulant Materials for PV Modules Production Value Market Share by Application (2024-2029)

Table 140. Global Encapsulant Materials for PV Modules Price by Application (2018-2023) & (US\$/m²)

Table 141. Global Encapsulant Materials for PV Modules Price by Application (2024-2029) & (US\$/m²)

Table 142. Key Raw Materials

Table 143. Raw Materials Key Suppliers

Table 144. Encapsulant Materials for PV Modules Distributors List

Table 145. Encapsulant Materials for PV Modules Customers List

Table 146. Encapsulant Materials for PV Modules Industry Trends

Table 147. Encapsulant Materials for PV Modules Industry Drivers

Table 148. Encapsulant Materials for PV Modules Industry Restraints

Table 149. Authors List of This Report

List Of Figures

LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Encapsulant Materials for PV Modules Product Picture
- Figure 5. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
- Figure 6. EVA Film Product Picture
- Figure 7. POE Film Product Picture
- Figure 8. Other Product Picture
- Figure 9. Monofacial Module Product Picture
- Figure 10. Bifacial Module Product Picture
- Figure 11. Global Encapsulant Materials for PV Modules Production Value (US\$ Million), 2018 VS 2022 VS 2029
- Figure 12. Global Encapsulant Materials for PV Modules Production Value (2018-2029) & (US\$ Million)
- Figure 13. Global Encapsulant Materials for PV Modules Production Capacity (2018-2029) & (m?)
- Figure 14. Global Encapsulant Materials for PV Modules Production (2018-2029) & (m?)
- Figure 15. Global Encapsulant Materials for PV Modules Average Price (US\$/m?) & (2018-2029)
- Figure 16. Global Encapsulant Materials for PV Modules Key Manufacturers, Manufacturing Sites & Headquarters
- Figure 17. Global Encapsulant Materials for PV Modules Manufacturers, Date of Enter into This Industry
- Figure 18. Global Top 5 and 10 Encapsulant Materials for PV Modules Players Market Share by Production Value in 2022
- Figure 19. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022
- Figure 20. Global Encapsulant Materials for PV Modules Production Comparison by Region: 2018 VS 2022 VS 2029 (m?)
- Figure 21. Global Encapsulant Materials for PV Modules Production Market Share by Region: 2018 VS 2022 VS 2029
- Figure 22. Global Encapsulant Materials for PV Modules Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)
- Figure 23. Global Encapsulant Materials for PV Modules Production Value Market Share by Region: 2018 VS 2022 VS 2029
- Figure 24. North America Encapsulant Materials for PV Modules Production Value (US\$

Million) Growth Rate (2018-2029)

Figure 25. Europe Encapsulant Materials for PV Modules Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 26. China Encapsulant Materials for PV Modules Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 27. Japan Encapsulant Materials for PV Modules Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 28. Global Encapsulant Materials for PV Modules Consumption Comparison by Region: 2018 VS 2022 VS 2029 (m?)

Figure 29. Global Encapsulant Materials for PV Modules Consumption Market Share by Region: 2018 VS 2022 VS 2029

Figure 30. North America Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 31. North America Encapsulant Materials for PV Modules Consumption Market Share by Country (2018-2029)

Figure 32. United States Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 33. Canada Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 34. Europe Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 35. Europe Encapsulant Materials for PV Modules Consumption Market Share by Country (2018-2029)

Figure 36. Germany Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 37. France Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 38. U.K. Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 39. Italy Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 40. Netherlands Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 41. Asia Pacific Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 42. Asia Pacific Encapsulant Materials for PV Modules Consumption Market Share by Country (2018-2029)

Figure 43. China Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 44. Japan Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 45. South Korea Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 46. China Taiwan Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 47. Southeast Asia Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 48. India Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 49. Australia Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 50. Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 51. Latin America, Middle East & Africa Encapsulant Materials for PV Modules Consumption Market Share by Country (2018-2029)

Figure 52. Mexico Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 53. Brazil Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 54. Turkey Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 55. GCC Countries Encapsulant Materials for PV Modules Consumption and Growth Rate (2018-2029) & (m?)

Figure 56. Global Encapsulant Materials for PV Modules Production Market Share by Type (2018-2029)

Figure 57. Global Encapsulant Materials for PV Modules Production Value Market Share by Type (2018-2029)

Figure 58. Global Encapsulant Materials for PV Modules Price (US\$/m?) by Type (2018-2029)

Figure 59. Global Encapsulant Materials for PV Modules Production Market Share by Application (2018-2029)

Figure 60. Global Encapsulant Materials for PV Modules Production Value Market Share by Application (2018-2029)

Figure 61. Global Encapsulant Materials for PV Modules Price (US\$/m?) by Application (2018-2029)

Figure 62. Encapsulant Materials for PV Modules Value Chain

Figure 63. Encapsulant Materials for PV Modules Production Mode & Process

Figure 64. Direct Comparison with Distribution Share

Figure 65. Distributors Profiles

Figure 66. Encapsulant Materials for PV Modules Industry Opportunities and Challenges

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