

# Global Solar Cell Backsheet Adhesive Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solar Cell Backsheet Adhesive market size is expected to reach \$ 611 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global Solar Cell Backsheet Adhesive production reached approximately 40 kilotons, the average price is 9000 usd/ton. Solar Cell Backsheet Adhesive refers to coating adhesive on PET film, then laminating fluorine film (PVF, PVDF) on both sides, or laminating fluorine film on one side and laminating PE-VA film or other film materials on the other side. A multi-layer composite back sheet is used for packaging of crystalline silicon solar cell modules.

### Market Concentration and Major Players:

Internationally, the market for adhesives used in solar cell backsheets is highly concentrated, primarily in developed countries such as Europe, the US, and Japan. Large manufacturers include Dow and Bostik. Domestically, manufacturers of adhesives for solar cell backsheets include China Lucky Group and Chengdu Guibao Technology.

**Manufacturing Process and Market Trends:** Adhesives for solar cell backsheets are manufactured using polyurethane, acrylate, or silicone resins as the matrix, combined with functional fillers and additives. Through prepolymer synthesis, precision dispersion, and degassing filtration, a highly stable system is formed. This system is then uniformly bonded to a PET substrate at the micron level using slot coating or composite extrusion processes, and gradient curing ensures interfacial adhesion and weather resistance.

At the market level, adhesives are upgrading towards solvent-free, low-temperature

curing, and ultra-weather-resistant formulations to meet the differentiated requirements of bifacial photovoltaic modules for light transmittance and reflectivity. At the same time, they are addressing the challenges of extreme environments such as building-integrated photovoltaics and offshore photovoltaics by developing new structural adhesives that combine water resistance and repairability. With the advancement of global photovoltaic recycling regulations, the research and development of bio-based raw materials and pyrolytic recyclable adhesives has also become the mainstream direction, driving the industry chain towards a green closed loop.

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

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

Highlights and key features of the study

Global Solar Cell Backsheet Adhesive total production and demand, 2021-2032, (Kilotons)

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

Global Solar Cell Backsheet Adhesive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Solar Cell Backsheet Adhesive consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Solar Cell Backsheet Adhesive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Solar Cell Backsheet Adhesive production by Materials, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Solar Cell Backsheet Adhesive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Solar Cell Backsheet Adhesive 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 Bostik, AI Technology, Inc., Dow Inc., DIC Corporation, TOYOBO, Artience, Mitsui Chemicals, Morchem, Chengdu Guibao Technology Co., Ltd., Yangzhou Chenhua New Materials, 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 Backsheet Adhesive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Materials, 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 Backsheet Adhesive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Cell Backsheet Adhesive Market, Segmentation by Materials:

Acrylic

Silicone

PU

Epoxy

Global Solar Cell Backsheet Adhesive Market, Segmentation by Curing:

Pressure Sensitive Adhesive

Thermosetting

Moisture-curing

Hot-melt

Global Solar Cell Backsheet Adhesive Market, Segmentation by Temperature:

-40°C ~ 85°C

85°C ~ 105°C

Above 105°C

Global Solar Cell Backsheet Adhesive Market, Segmentation by Application:

Silicon Solar Cell

Thin Film Solar Cell

Others

Companies Profiled:

Bostik

AI Technology, Inc.

Dow Inc.

DIC Corporation

TOYOBO

Artience

Mitsui Chemicals

Morchem

Chengdu Guibao Technology Co., Ltd.

Yangzhou Chenhua New Materials

Suzhou Saiwu Applied Technology

China Lucky Group

Shanghai Weikai Optoelectronic New Materials

#### Key Questions Answered:

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Solar Cell Backsheet Adhesive Introduction
- 1.2 World Solar Cell Backsheet Adhesive Supply & Forecast
  - 1.2.1 World Solar Cell Backsheet Adhesive Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Solar Cell Backsheet Adhesive Production (2021-2032)
  - 1.2.3 World Solar Cell Backsheet Adhesive Pricing Trends (2021-2032)
- 1.3 World Solar Cell Backsheet Adhesive Production by Region (Based on Production Site)
  - 1.3.1 World Solar Cell Backsheet Adhesive Production Value by Region (2021-2032)
  - 1.3.2 World Solar Cell Backsheet Adhesive Production by Region (2021-2032)
  - 1.3.3 World Solar Cell Backsheet Adhesive Average Price by Region (2021-2032)
  - 1.3.4 North America Solar Cell Backsheet Adhesive Production (2021-2032)
  - 1.3.5 Europe Solar Cell Backsheet Adhesive Production (2021-2032)
  - 1.3.6 China Solar Cell Backsheet Adhesive Production (2021-2032)
  - 1.3.7 Japan Solar Cell Backsheet Adhesive Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Solar Cell Backsheet Adhesive Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Solar Cell Backsheet Adhesive Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Solar Cell Backsheet Adhesive Demand (2021-2032)
- 2.2 World Solar Cell Backsheet Adhesive Consumption by Region
  - 2.2.1 World Solar Cell Backsheet Adhesive Consumption by Region (2021-2026)
  - 2.2.2 World Solar Cell Backsheet Adhesive Consumption Forecast by Region (2027-2032)
- 2.3 United States Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.4 China Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.5 Europe Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.6 Japan Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.7 South Korea Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.8 ASEAN Solar Cell Backsheet Adhesive Consumption (2021-2032)
- 2.9 India Solar Cell Backsheet Adhesive Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Solar Cell Backsheet Adhesive Production Value by Manufacturer (2021-2026)
- 3.2 World Solar Cell Backsheet Adhesive Production by Manufacturer (2021-2026)
- 3.3 World Solar Cell Backsheet Adhesive Average Price by Manufacturer (2021-2026)
- 3.4 Solar Cell Backsheet Adhesive Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Solar Cell Backsheet Adhesive Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Solar Cell Backsheet Adhesive in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Solar Cell Backsheet Adhesive in 2025
- 3.6 Solar Cell Backsheet Adhesive Market: Overall Company Footprint Analysis
  - 3.6.1 Solar Cell Backsheet Adhesive Market: Region Footprint
  - 3.6.2 Solar Cell Backsheet Adhesive Market: Company Product Type Footprint
  - 3.6.3 Solar Cell Backsheet Adhesive Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Solar Cell Backsheet Adhesive Production Value Comparison
  - 4.1.1 United States VS China: Solar Cell Backsheet Adhesive Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Solar Cell Backsheet Adhesive Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Solar Cell Backsheet Adhesive Production Comparison
  - 4.2.1 United States VS China: Solar Cell Backsheet Adhesive Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Solar Cell Backsheet Adhesive Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Solar Cell Backsheet Adhesive Consumption Comparison
  - 4.3.1 United States VS China: Solar Cell Backsheet Adhesive Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Solar Cell Backsheet Adhesive Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Solar Cell Backsheet Adhesive Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Solar Cell Backsheet Adhesive Production Value (2021-2026)

4.4.3 United States Based Manufacturers Solar Cell Backsheet Adhesive Production (2021-2026)

#### 4.5 China Based Solar Cell Backsheet Adhesive Manufacturers and Market Share

4.5.1 China Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Solar Cell Backsheet Adhesive Production Value (2021-2026)

4.5.3 China Based Manufacturers Solar Cell Backsheet Adhesive Production (2021-2026)

#### 4.6 Rest of World Based Solar Cell Backsheet Adhesive Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production (2021-2026)

## 5 MARKET ANALYSIS BY MATERIALS

### 5.1 World Solar Cell Backsheet Adhesive Market Size Overview by Materials: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Materials

5.2.1 Acrylic

5.2.2 Silicone

5.2.3 PU

5.2.4 Epoxy

### 5.3 Market Segment by Materials

5.3.1 World Solar Cell Backsheet Adhesive Production by Materials (2021-2032)

5.3.2 World Solar Cell Backsheet Adhesive Production Value by Materials (2021-2032)

5.3.3 World Solar Cell Backsheet Adhesive Average Price by Materials (2021-2032)

## 6 MARKET ANALYSIS BY CURING

6.1 World Solar Cell Backsheet Adhesive Market Size Overview by Curing: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Curing

6.2.1 Pressure Sensitive Adhesive

6.2.2 Thermosetting

6.2.3 Moisture-curing

6.2.4 Hot-melt

6.3 Market Segment by Curing

6.3.1 World Solar Cell Backsheet Adhesive Production by Curing (2021-2032)

6.3.2 World Solar Cell Backsheet Adhesive Production Value by Curing (2021-2032)

6.3.3 World Solar Cell Backsheet Adhesive Average Price by Curing (2021-2032)

## **7 MARKET ANALYSIS BY TEMPERATURE**

7.1 World Solar Cell Backsheet Adhesive Market Size Overview by Temperature: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Temperature

7.2.1 -40°C ~ 85°C

7.2.2 85°C ~ 105°C

7.2.3 Above 105°C

7.3 Market Segment by Temperature

7.3.1 World Solar Cell Backsheet Adhesive Production by Temperature (2021-2032)

7.3.2 World Solar Cell Backsheet Adhesive Production Value by Temperature (2021-2032)

7.3.3 World Solar Cell Backsheet Adhesive Average Price by Temperature (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Solar Cell Backsheet Adhesive Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Silicon Solar Cell

8.2.2 Thin Film Solar Cell

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Solar Cell Backsheet Adhesive Production by Application (2021-2032)

8.3.2 World Solar Cell Backsheet Adhesive Production Value by Application

(2021-2032)

8.3.3 World Solar Cell Backsheet Adhesive Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### 9.1 Bostik

9.1.1 Bostik Details

9.1.2 Bostik Major Business

9.1.3 Bostik Solar Cell Backsheet Adhesive Product and Services

9.1.4 Bostik Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bostik Recent Developments/Updates

9.1.6 Bostik Competitive Strengths & Weaknesses

### 9.2 AI Technology, Inc.

9.2.1 AI Technology, Inc. Details

9.2.2 AI Technology, Inc. Major Business

9.2.3 AI Technology, Inc. Solar Cell Backsheet Adhesive Product and Services

9.2.4 AI Technology, Inc. Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 AI Technology, Inc. Recent Developments/Updates

9.2.6 AI Technology, Inc. Competitive Strengths & Weaknesses

### 9.3 Dow Inc.

9.3.1 Dow Inc. Details

9.3.2 Dow Inc. Major Business

9.3.3 Dow Inc. Solar Cell Backsheet Adhesive Product and Services

9.3.4 Dow Inc. Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Dow Inc. Recent Developments/Updates

9.3.6 Dow Inc. Competitive Strengths & Weaknesses

### 9.4 DIC Corporation

9.4.1 DIC Corporation Details

9.4.2 DIC Corporation Major Business

9.4.3 DIC Corporation Solar Cell Backsheet Adhesive Product and Services

9.4.4 DIC Corporation Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 DIC Corporation Recent Developments/Updates

9.4.6 DIC Corporation Competitive Strengths & Weaknesses

### 9.5 TOYOBO

9.5.1 TOYOBO Details

- 9.5.2 TOYOBO Major Business
- 9.5.3 TOYOBO Solar Cell Backsheet Adhesive Product and Services
- 9.5.4 TOYOBO Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 TOYOBO Recent Developments/Updates
- 9.5.6 TOYOBO Competitive Strengths & Weaknesses
- 9.6 Artience
  - 9.6.1 Artience Details
  - 9.6.2 Artience Major Business
  - 9.6.3 Artience Solar Cell Backsheet Adhesive Product and Services
  - 9.6.4 Artience Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Artience Recent Developments/Updates
  - 9.6.6 Artience Competitive Strengths & Weaknesses
- 9.7 Mitsui Chemicals
  - 9.7.1 Mitsui Chemicals Details
  - 9.7.2 Mitsui Chemicals Major Business
  - 9.7.3 Mitsui Chemicals Solar Cell Backsheet Adhesive Product and Services
  - 9.7.4 Mitsui Chemicals Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Mitsui Chemicals Recent Developments/Updates
  - 9.7.6 Mitsui Chemicals Competitive Strengths & Weaknesses
- 9.8 Morchem
  - 9.8.1 Morchem Details
  - 9.8.2 Morchem Major Business
  - 9.8.3 Morchem Solar Cell Backsheet Adhesive Product and Services
  - 9.8.4 Morchem Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Morchem Recent Developments/Updates
  - 9.8.6 Morchem Competitive Strengths & Weaknesses
- 9.9 Chengdu Guibao Technology Co., Ltd.
  - 9.9.1 Chengdu Guibao Technology Co., Ltd. Details
  - 9.9.2 Chengdu Guibao Technology Co., Ltd. Major Business
  - 9.9.3 Chengdu Guibao Technology Co., Ltd. Solar Cell Backsheet Adhesive Product and Services
  - 9.9.4 Chengdu Guibao Technology Co., Ltd. Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Chengdu Guibao Technology Co., Ltd. Recent Developments/Updates
  - 9.9.6 Chengdu Guibao Technology Co., Ltd. Competitive Strengths & Weaknesses

## 9.10 Yangzhou Chenhua New Materials

9.10.1 Yangzhou Chenhua New Materials Details

9.10.2 Yangzhou Chenhua New Materials Major Business

9.10.3 Yangzhou Chenhua New Materials Solar Cell Backsheet Adhesive Product and Services

9.10.4 Yangzhou Chenhua New Materials Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Yangzhou Chenhua New Materials Recent Developments/Updates

9.10.6 Yangzhou Chenhua New Materials Competitive Strengths & Weaknesses

## 9.11 Suzhou Saiwu Applied Technology

9.11.1 Suzhou Saiwu Applied Technology Details

9.11.2 Suzhou Saiwu Applied Technology Major Business

9.11.3 Suzhou Saiwu Applied Technology Solar Cell Backsheet Adhesive Product and Services

9.11.4 Suzhou Saiwu Applied Technology Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Suzhou Saiwu Applied Technology Recent Developments/Updates

9.11.6 Suzhou Saiwu Applied Technology Competitive Strengths & Weaknesses

## 9.12 China Lucky Group

9.12.1 China Lucky Group Details

9.12.2 China Lucky Group Major Business

9.12.3 China Lucky Group Solar Cell Backsheet Adhesive Product and Services

9.12.4 China Lucky Group Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 China Lucky Group Recent Developments/Updates

9.12.6 China Lucky Group Competitive Strengths & Weaknesses

## 9.13 Shanghai Weikai Optoelectronic New Materials

9.13.1 Shanghai Weikai Optoelectronic New Materials Details

9.13.2 Shanghai Weikai Optoelectronic New Materials Major Business

9.13.3 Shanghai Weikai Optoelectronic New Materials Solar Cell Backsheet Adhesive Product and Services

9.13.4 Shanghai Weikai Optoelectronic New Materials Solar Cell Backsheet Adhesive Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Shanghai Weikai Optoelectronic New Materials Recent Developments/Updates

9.13.6 Shanghai Weikai Optoelectronic New Materials Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

- 10.1 Solar Cell Backsheet Adhesive Industry Chain
- 10.2 Solar Cell Backsheet Adhesive Upstream Analysis
  - 10.2.1 Solar Cell Backsheet Adhesive Core Raw Materials
  - 10.2.2 Main Manufacturers of Solar Cell Backsheet Adhesive Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Solar Cell Backsheet Adhesive Production Mode
- 10.6 Solar Cell Backsheet Adhesive Procurement Model
- 10.7 Solar Cell Backsheet Adhesive Industry Sales Model and Sales Channels
  - 10.7.1 Solar Cell Backsheet Adhesive Sales Model
  - 10.7.2 Solar Cell Backsheet Adhesive Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Solar Cell Backsheet Adhesive Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Solar Cell Backsheet Adhesive Production Value by Region (2021-2026) & (USD Million)

Table 3. World Solar Cell Backsheet Adhesive Production Value by Region (2027-2032) & (USD Million)

Table 4. World Solar Cell Backsheet Adhesive Production Value Market Share by Region (2021-2026)

Table 5. World Solar Cell Backsheet Adhesive Production Value Market Share by Region (2027-2032)

Table 6. World Solar Cell Backsheet Adhesive Production by Region (2021-2026) & (Kilotons)

Table 7. World Solar Cell Backsheet Adhesive Production by Region (2027-2032) & (Kilotons)

Table 8. World Solar Cell Backsheet Adhesive Production Market Share by Region (2021-2026)

Table 9. World Solar Cell Backsheet Adhesive Production Market Share by Region (2027-2032)

Table 10. World Solar Cell Backsheet Adhesive Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Solar Cell Backsheet Adhesive Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Solar Cell Backsheet Adhesive Major Market Trends

Table 13. World Solar Cell Backsheet Adhesive Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Solar Cell Backsheet Adhesive Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Solar Cell Backsheet Adhesive Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Solar Cell Backsheet Adhesive Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Solar Cell Backsheet Adhesive Producers in 2025

Table 18. World Solar Cell Backsheet Adhesive Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Solar Cell Backsheet Adhesive Producers in 2025

Table 20. World Solar Cell Backsheet Adhesive Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Solar Cell Backsheet Adhesive Company Evaluation Quadrant

Table 22. World Solar Cell Backsheet Adhesive Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Solar Cell Backsheet Adhesive Production Site of Key Manufacturer

Table 24. Solar Cell Backsheet Adhesive Market: Company Product Type Footprint

Table 25. Solar Cell Backsheet Adhesive Market: Company Product Application Footprint

Table 26. Solar Cell Backsheet Adhesive Competitive Factors

Table 27. Solar Cell Backsheet Adhesive New Entrant and Capacity Expansion Plans

Table 28. Solar Cell Backsheet Adhesive Mergers & Acquisitions Activity

Table 29. United States VS China Solar Cell Backsheet Adhesive Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Solar Cell Backsheet Adhesive Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Solar Cell Backsheet Adhesive Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Solar Cell Backsheet Adhesive Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Solar Cell Backsheet Adhesive Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Solar Cell Backsheet Adhesive Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share (2021-2026)

Table 37. China Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Solar Cell Backsheet Adhesive Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Solar Cell Backsheet Adhesive Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Solar Cell Backsheet Adhesive Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share (2021-2026)

Table 42. Rest of World Based Solar Cell Backsheet Adhesive Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share (2021-2026)

Table 47. World Solar Cell Backsheet Adhesive Production Value by Materials, (USD Million), 2021 & 2025 & 2032

Table 48. World Solar Cell Backsheet Adhesive Production by Materials (2021-2026) & (Kilotons)

Table 49. World Solar Cell Backsheet Adhesive Production by Materials (2027-2032) & (Kilotons)

Table 50. World Solar Cell Backsheet Adhesive Production Value by Materials (2021-2026) & (USD Million)

Table 51. World Solar Cell Backsheet Adhesive Production Value by Materials (2027-2032) & (USD Million)

Table 52. World Solar Cell Backsheet Adhesive Average Price by Materials (2021-2026) & (US\$/Ton)

Table 53. World Solar Cell Backsheet Adhesive Average Price by Materials (2027-2032) & (US\$/Ton)

Table 54. World Solar Cell Backsheet Adhesive Production Value by Curing, (USD Million), 2021 & 2025 & 2032

Table 55. World Solar Cell Backsheet Adhesive Production by Curing (2021-2026) & (Kilotons)

Table 56. World Solar Cell Backsheet Adhesive Production by Curing (2027-2032) & (Kilotons)

Table 57. World Solar Cell Backsheet Adhesive Production Value by Curing (2021-2026) & (USD Million)

Table 58. World Solar Cell Backsheet Adhesive Production Value by Curing (2027-2032) & (USD Million)

Table 59. World Solar Cell Backsheet Adhesive Average Price by Curing (2021-2026) & (US\$/Ton)

Table 60. World Solar Cell Backsheet Adhesive Average Price by Curing (2027-2032) &

(US\$/Ton)

Table 61. World Solar Cell Backsheet Adhesive Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Table 62. World Solar Cell Backsheet Adhesive Production by Temperature (2021-2026) & (Kilotons)

Table 63. World Solar Cell Backsheet Adhesive Production by Temperature (2027-2032) & (Kilotons)

Table 64. World Solar Cell Backsheet Adhesive Production Value by Temperature (2021-2026) & (USD Million)

Table 65. World Solar Cell Backsheet Adhesive Production Value by Temperature (2027-2032) & (USD Million)

Table 66. World Solar Cell Backsheet Adhesive Average Price by Temperature (2021-2026) & (US\$/Ton)

Table 67. World Solar Cell Backsheet Adhesive Average Price by Temperature (2027-2032) & (US\$/Ton)

Table 68. World Solar Cell Backsheet Adhesive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Solar Cell Backsheet Adhesive Production by Application (2021-2026) & (Kilotons)

Table 70. World Solar Cell Backsheet Adhesive Production by Application (2027-2032) & (Kilotons)

Table 71. World Solar Cell Backsheet Adhesive Production Value by Application (2021-2026) & (USD Million)

Table 72. World Solar Cell Backsheet Adhesive Production Value by Application (2027-2032) & (USD Million)

Table 73. World Solar Cell Backsheet Adhesive Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Solar Cell Backsheet Adhesive Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Bostik Basic Information, Manufacturing Base and Competitors

Table 76. Bostik Major Business

Table 77. Bostik Solar Cell Backsheet Adhesive Product and Services

Table 78. Bostik Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bostik Recent Developments/Updates

Table 80. Bostik Competitive Strengths & Weaknesses

Table 81. AI Technology, Inc. Basic Information, Manufacturing Base and Competitors

Table 82. AI Technology, Inc. Major Business

Table 83. AI Technology, Inc. Solar Cell Backsheet Adhesive Product and Services

Table 84. AI Technology, Inc. Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AI Technology, Inc. Recent Developments/Updates

Table 86. AI Technology, Inc. Competitive Strengths & Weaknesses

Table 87. Dow Inc. Basic Information, Manufacturing Base and Competitors

Table 88. Dow Inc. Major Business

Table 89. Dow Inc. Solar Cell Backsheet Adhesive Product and Services

Table 90. Dow Inc. Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Dow Inc. Recent Developments/Updates

Table 92. Dow Inc. Competitive Strengths & Weaknesses

Table 93. DIC Corporation Basic Information, Manufacturing Base and Competitors

Table 94. DIC Corporation Major Business

Table 95. DIC Corporation Solar Cell Backsheet Adhesive Product and Services

Table 96. DIC Corporation Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. DIC Corporation Recent Developments/Updates

Table 98. DIC Corporation Competitive Strengths & Weaknesses

Table 99. TOYOBO Basic Information, Manufacturing Base and Competitors

Table 100. TOYOBO Major Business

Table 101. TOYOBO Solar Cell Backsheet Adhesive Product and Services

Table 102. TOYOBO Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. TOYOBO Recent Developments/Updates

Table 104. TOYOBO Competitive Strengths & Weaknesses

Table 105. Artience Basic Information, Manufacturing Base and Competitors

Table 106. Artience Major Business

Table 107. Artience Solar Cell Backsheet Adhesive Product and Services

Table 108. Artience Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Artience Recent Developments/Updates

Table 110. Artience Competitive Strengths & Weaknesses

Table 111. Mitsui Chemicals Basic Information, Manufacturing Base and Competitors

Table 112. Mitsui Chemicals Major Business

Table 113. Mitsui Chemicals Solar Cell Backsheet Adhesive Product and Services

Table 114. Mitsui Chemicals Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Mitsui Chemicals Recent Developments/Updates

Table 116. Mitsui Chemicals Competitive Strengths & Weaknesses

Table 117. Morchem Basic Information, Manufacturing Base and Competitors

Table 118. Morchem Major Business

Table 119. Morchem Solar Cell Backsheet Adhesive Product and Services

Table 120. Morchem Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Morchem Recent Developments/Updates

Table 122. Morchem Competitive Strengths & Weaknesses

Table 123. Chengdu Guibao Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Chengdu Guibao Technology Co., Ltd. Major Business

Table 125. Chengdu Guibao Technology Co., Ltd. Solar Cell Backsheet Adhesive Product and Services

Table 126. Chengdu Guibao Technology Co., Ltd. Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Chengdu Guibao Technology Co., Ltd. Recent Developments/Updates

Table 128. Chengdu Guibao Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Yangzhou Chenhua New Materials Basic Information, Manufacturing Base and Competitors

Table 130. Yangzhou Chenhua New Materials Major Business

Table 131. Yangzhou Chenhua New Materials Solar Cell Backsheet Adhesive Product and Services

Table 132. Yangzhou Chenhua New Materials Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Yangzhou Chenhua New Materials Recent Developments/Updates

Table 134. Yangzhou Chenhua New Materials Competitive Strengths & Weaknesses

Table 135. Suzhou Saiwu Applied Technology Basic Information, Manufacturing Base and Competitors

Table 136. Suzhou Saiwu Applied Technology Major Business

Table 137. Suzhou Saiwu Applied Technology Solar Cell Backsheet Adhesive Product

and Services

Table 138. Suzhou Saiwu Applied Technology Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Suzhou Saiwu Applied Technology Recent Developments/Updates

Table 140. Suzhou Saiwu Applied Technology Competitive Strengths & Weaknesses

Table 141. China Lucky Group Basic Information, Manufacturing Base and Competitors

Table 142. China Lucky Group Major Business

Table 143. China Lucky Group Solar Cell Backsheet Adhesive Product and Services

Table 144. China Lucky Group Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. China Lucky Group Recent Developments/Updates

Table 146. China Lucky Group Competitive Strengths & Weaknesses

Table 147. Shanghai Weikai Optoelectronic New Materials Basic Information, Manufacturing Base and Competitors

Table 148. Shanghai Weikai Optoelectronic New Materials Major Business

Table 149. Shanghai Weikai Optoelectronic New Materials Solar Cell Backsheet Adhesive Product and Services

Table 150. Shanghai Weikai Optoelectronic New Materials Solar Cell Backsheet Adhesive Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shanghai Weikai Optoelectronic New Materials Recent Developments/Updates

Table 152. Shanghai Weikai Optoelectronic New Materials Competitive Strengths & Weaknesses

Table 153. Global Key Players of Solar Cell Backsheet Adhesive Upstream (Raw Materials)

Table 154. Global Solar Cell Backsheet Adhesive Typical Customers

Table 155. Solar Cell Backsheet Adhesive Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Solar Cell Backsheet Adhesive Picture

Figure 2. World Solar Cell Backsheet Adhesive Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Solar Cell Backsheet Adhesive Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Solar Cell Backsheet Adhesive Production (2021-2032) & (Kilotons)

Figure 5. World Solar Cell Backsheet Adhesive Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Solar Cell Backsheet Adhesive Production Value Market Share by Region (2021-2032)

Figure 7. World Solar Cell Backsheet Adhesive Production Market Share by Region (2021-2032)

Figure 8. North America Solar Cell Backsheet Adhesive Production (2021-2032) & (Kilotons)

Figure 9. Europe Solar Cell Backsheet Adhesive Production (2021-2032) & (Kilotons)

Figure 10. China Solar Cell Backsheet Adhesive Production (2021-2032) & (Kilotons)

Figure 11. Japan Solar Cell Backsheet Adhesive Production (2021-2032) & (Kilotons)

Figure 12. Solar Cell Backsheet Adhesive Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 15. World Solar Cell Backsheet Adhesive Consumption Market Share by Region (2021-2032)

Figure 16. United States Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 17. China Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 22. India Solar Cell Backsheet Adhesive Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Solar Cell Backsheet Adhesive by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Solar Cell Backsheet

## Adhesive Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Solar Cell Backsheet Adhesive Markets in 2025

Figure 26. United States VS China: Solar Cell Backsheet Adhesive Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Solar Cell Backsheet Adhesive Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Solar Cell Backsheet Adhesive Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share 2025

Figure 30. China Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Solar Cell Backsheet Adhesive Production Market Share 2025

Figure 32. World Solar Cell Backsheet Adhesive Production Value by Materials, (USD Million), 2021 & 2025 & 2032

Figure 33. World Solar Cell Backsheet Adhesive Production Value Market Share by Materials in 2025

Figure 34. Acrylic

Figure 35. Silicone

Figure 36. PU

Figure 37. Epoxy

Figure 38. World Solar Cell Backsheet Adhesive Production Market Share by Materials (2021-2032)

Figure 39. World Solar Cell Backsheet Adhesive Production Value Market Share by Materials (2021-2032)

Figure 40. World Solar Cell Backsheet Adhesive Average Price by Materials (2021-2032) & (US\$/Ton)

Figure 41. World Solar Cell Backsheet Adhesive Production Value by Curing, (USD Million), 2021 & 2025 & 2032

Figure 42. World Solar Cell Backsheet Adhesive Production Value Market Share by Curing in 2025

Figure 43. Pressure Sensitive Adhesive

Figure 44. Thermosetting

Figure 45. Moisture-curing

Figure 46. Hot-melt

Figure 47. World Solar Cell Backsheet Adhesive Production Market Share by Curing (2021-2032)

Figure 48. World Solar Cell Backsheet Adhesive Production Value Market Share by Curing (2021-2032)

Figure 49. World Solar Cell Backsheet Adhesive Average Price by Curing (2021-2032) & (US\$/Ton)

Figure 50. World Solar Cell Backsheet Adhesive Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Figure 51. World Solar Cell Backsheet Adhesive Production Value Market Share by Temperature in 2025

Figure 52. -40°C ~ 85°C

Figure 53. 85°C ~ 105°C

Figure 54. Above 105°C

Figure 55. World Solar Cell Backsheet Adhesive Production Market Share by Temperature (2021-2032)

Figure 56. World Solar Cell Backsheet Adhesive Production Value Market Share by Temperature (2021-2032)

Figure 57. World Solar Cell Backsheet Adhesive Average Price by Temperature (2021-2032) & (US\$/Ton)

Figure 58. World Solar Cell Backsheet Adhesive Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Solar Cell Backsheet Adhesive Production Value Market Share by Application in 2025

Figure 60. Silicon Solar Cell

Figure 61. Thin Film Solar Cell

Figure 62. Others

Figure 63. World Solar Cell Backsheet Adhesive Production Market Share by Application (2021-2032)

Figure 64. World Solar Cell Backsheet Adhesive Production Value Market Share by Application (2021-2032)

Figure 65. World Solar Cell Backsheet Adhesive Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Solar Cell Backsheet Adhesive Industry Chain

Figure 67. Solar Cell Backsheet Adhesive Procurement Model

Figure 68. Solar Cell Backsheet Adhesive Sales Model

Figure 69. Solar Cell Backsheet Adhesive Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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