

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

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## Abstracts

The global Solar Film market size is expected to reach \$ 3229 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Solar control window films are functional, glass-applied polymer films typically based on PET or multilayer transparent substrates and manufactured through dyeing, metallization, sputtering, nano-ceramic coating, multilayer lamination, pressure-sensitive adhesive coating and hard-coat surface treatment. They are primarily installed on automotive side and rear windows, high-visible-light-transmission windshield zones, sunroofs, residential windows, commercial glazing, storefronts, schools, hospitals, offices and other public facilities. Their core function is to selectively absorb, reflect or transmit ultraviolet, infrared and visible solar radiation while maintaining acceptable visibility and optical comfort, thereby reducing solar heat gain, improving occupant comfort, cutting glare, protecting interiors from fading and, in certain product configurations, adding privacy, safety and glass-fragment retention performance. Common performance metrics include VLT, TSER, IR rejection, UV rejection, SHGC, internal and external reflectance, weatherability, adhesive durability, scratch resistance, installation compatibility and compliance with local automotive glazing or building codes.

Based on our research, solar control window films should be understood as functional materials for solar radiation management rather than simple automotive accessories. In automotive applications, demand is driven by cabin comfort, UV protection, glare reduction, privacy, panoramic roofs and the replacement cycle in the aftermarket. In architectural applications, demand is tied to retrofit energy efficiency, solar heat gain control, glare management and occupant comfort in residential, commercial and public buildings. The product is especially valuable because it can improve the performance of existing glazing without replacing the glass itself. For industry sizing, the boundary must

be kept narrow and professional: automotive and architectural solar control window films should be included, while photovoltaic films, paint protection films, low-E glass, purely decorative films and installation labor should be excluded from the core revenue model.

From a product and technology perspective, dyed and basic metallized films remain relevant in price-sensitive markets, but premium growth is shifting toward nano-ceramic, sputtered, spectrally selective, low-reflectance high-VLT and weatherable exterior architectural films. Automotive customers are placing more emphasis on signal compatibility, low haze, high visible light transmission, infrared rejection and roof-glass heat reduction, while architectural customers care more about SHGC, optical neutrality, exterior appearance, weatherability and energy-related certification. Future competition will be less about film roll price alone and more about coating know-how, batch consistency, adhesive durability, warranty credibility, installation ecosystem and compliance with regional automotive and building rules.

Growth is expected to come from product premiumization, energy retrofit demand, rising vehicle ownership in hot-climate markets and replacement demand from the installed base. Substitution risks exist from factory privacy glass, low-E glazing and smart glass, especially in new vehicles and premium buildings, but the large installed base of cars and buildings supports continued aftermarket and retrofit demand. The market is therefore mature in basic products but still structurally growing in high-performance films and emerging-region adoption.

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

This report is a detailed and comprehensive analysis of the world market for Solar Film and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Solar Film market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Eastman Chemical Company, 3M Company, Saint-Gobain, LINTEC Corporation, Avery Dennison Corporation, Garware Hi-Tech Films Limited, NEXFIL Co., Ltd., Erickson International, LLC, Profilm Group, Jiangsu Aerospace SANYOU Technology Co., Ltd., 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 Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, 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 Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solar Film Market, Segmentation by Type:

Solar Heat Rejection Films

Glare Reduction Films

Privacy Control Films

Other Functional Films

#### Global Solar Film Market, Segmentation by Technology Route:

Dyed Films

Metallized Films

Other

#### Global Solar Film Market, Segmentation by Performance Level:

Economy Films

Standard Performance Films

High Performance Films

Other Performance Grades

Global Solar Film Market, Segmentation by Application:

Architectural Window Films

Transportation Window Films

Other Specialty Applications

Companies Profiled:

Eastman Chemical Company

3M Company

Saint-Gobain

LINTEC Corporation

Avery Dennison Corporation

Garware Hi-Tech Films Limited

NEXFIL Co., Ltd.

Erickson International, LLC

Profilm Group

Jiangsu Aerospace SANYOU Technology Co., Ltd.

Sumitomo Riko Company Limited

Nan Ya Plastics Corporation

Rayno Window Film

Zhejiang Shichuang Optical Film Manufacturing Co., Ltd.

Key Questions Answered:

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Solar Film Production Value by Manufacturer (2021-2026)
- 3.2 World Solar Film Production by Manufacturer (2021-2026)
- 3.3 World Solar Film Average Price by Manufacturer (2021-2026)
- 3.4 Solar Film Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Solar Film Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Solar Film in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Solar Film in 2025
- 3.6 Solar Film Market: Overall Company Footprint Analysis
  - 3.6.1 Solar Film Market: Region Footprint
  - 3.6.2 Solar Film Market: Company Product Type Footprint
  - 3.6.3 Solar Film 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 Film Production Value Comparison
  - 4.1.1 United States VS China: Solar Film Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Solar Film Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Solar Film Production Comparison
  - 4.2.1 United States VS China: Solar Film Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Solar Film Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Solar Film Consumption Comparison
  - 4.3.1 United States VS China: Solar Film Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Solar Film Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Solar Film Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Solar Film Manufacturers, Headquarters and Production

## Site (States, Country)

4.4.2 United States Based Manufacturers Solar Film Production Value (2021-2026)

4.4.3 United States Based Manufacturers Solar Film Production (2021-2026)

## 4.5 China Based Solar Film Manufacturers and Market Share

4.5.1 China Based Solar Film Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Solar Film Production Value (2021-2026)

4.5.3 China Based Manufacturers Solar Film Production (2021-2026)

## 4.6 Rest of World Based Solar Film Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Solar Film Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Solar Film Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

### 5.1 World Solar Film Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 Solar Heat Rejection Films

5.2.2 Glare Reduction Films

5.2.3 Privacy Control Films

5.2.4 Other Functional Films

#### 5.3 Market Segment by Type

5.3.1 World Solar Film Production by Type (2021-2032)

5.3.2 World Solar Film Production Value by Type (2021-2032)

5.3.3 World Solar Film Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY TECHNOLOGY ROUTE

### 6.1 World Solar Film Market Size Overview by Technology Route: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Technology Route

6.2.1 Dyed Films

6.2.2 Metallized Films

6.2.3 Other

#### 6.3 Market Segment by Technology Route

6.3.1 World Solar Film Production by Technology Route (2021-2032)

6.3.2 World Solar Film Production Value by Technology Route (2021-2032)

6.3.3 World Solar Film Average Price by Technology Route (2021-2032)

## **7 MARKET ANALYSIS BY PERFORMANCE LEVEL**

7.1 World Solar Film Market Size Overview by Performance Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Performance Level

7.2.1 Economy Films

7.2.2 Standard Performance Films

7.2.3 High Performance Films

7.2.4 Other Performance Grades

7.3 Market Segment by Performance Level

7.3.1 World Solar Film Production by Performance Level (2021-2032)

7.3.2 World Solar Film Production Value by Performance Level (2021-2032)

7.3.3 World Solar Film Average Price by Performance Level (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Solar Film Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Architectural Window Films

8.2.2 Transportation Window Films

8.2.3 Other Specialty Applications

8.3 Market Segment by Application

8.3.1 World Solar Film Production by Application (2021-2032)

8.3.2 World Solar Film Production Value by Application (2021-2032)

8.3.3 World Solar Film Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Eastman Chemical Company

9.1.1 Eastman Chemical Company Details

9.1.2 Eastman Chemical Company Major Business

9.1.3 Eastman Chemical Company Solar Film Product and Services

9.1.4 Eastman Chemical Company Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Eastman Chemical Company Recent Developments/Updates

9.1.6 Eastman Chemical Company Competitive Strengths & Weaknesses

9.2 3M Company

9.2.1 3M Company Details

- 9.2.2 3M Company Major Business
- 9.2.3 3M Company Solar Film Product and Services
- 9.2.4 3M Company Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 3M Company Recent Developments/Updates
- 9.2.6 3M Company Competitive Strengths & Weaknesses
- 9.3 Saint-Gobain
  - 9.3.1 Saint-Gobain Details
  - 9.3.2 Saint-Gobain Major Business
  - 9.3.3 Saint-Gobain Solar Film Product and Services
  - 9.3.4 Saint-Gobain Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Saint-Gobain Recent Developments/Updates
  - 9.3.6 Saint-Gobain Competitive Strengths & Weaknesses
- 9.4 LINTEC Corporation
  - 9.4.1 LINTEC Corporation Details
  - 9.4.2 LINTEC Corporation Major Business
  - 9.4.3 LINTEC Corporation Solar Film Product and Services
  - 9.4.4 LINTEC Corporation Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 LINTEC Corporation Recent Developments/Updates
  - 9.4.6 LINTEC Corporation Competitive Strengths & Weaknesses
- 9.5 Avery Dennison Corporation
  - 9.5.1 Avery Dennison Corporation Details
  - 9.5.2 Avery Dennison Corporation Major Business
  - 9.5.3 Avery Dennison Corporation Solar Film Product and Services
  - 9.5.4 Avery Dennison Corporation Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Avery Dennison Corporation Recent Developments/Updates
  - 9.5.6 Avery Dennison Corporation Competitive Strengths & Weaknesses
- 9.6 Garware Hi-Tech Films Limited
  - 9.6.1 Garware Hi-Tech Films Limited Details
  - 9.6.2 Garware Hi-Tech Films Limited Major Business
  - 9.6.3 Garware Hi-Tech Films Limited Solar Film Product and Services
  - 9.6.4 Garware Hi-Tech Films Limited Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Garware Hi-Tech Films Limited Recent Developments/Updates
  - 9.6.6 Garware Hi-Tech Films Limited Competitive Strengths & Weaknesses
- 9.7 NEXFIL Co., Ltd.

- 9.7.1 NEXFIL Co., Ltd. Details
- 9.7.2 NEXFIL Co., Ltd. Major Business
- 9.7.3 NEXFIL Co., Ltd. Solar Film Product and Services
- 9.7.4 NEXFIL Co., Ltd. Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 NEXFIL Co., Ltd. Recent Developments/Updates
- 9.7.6 NEXFIL Co., Ltd. Competitive Strengths & Weaknesses
- 9.8 Erickson International, LLC
  - 9.8.1 Erickson International, LLC Details
  - 9.8.2 Erickson International, LLC Major Business
  - 9.8.3 Erickson International, LLC Solar Film Product and Services
  - 9.8.4 Erickson International, LLC Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Erickson International, LLC Recent Developments/Updates
  - 9.8.6 Erickson International, LLC Competitive Strengths & Weaknesses
- 9.9 Profilm Group
  - 9.9.1 Profilm Group Details
  - 9.9.2 Profilm Group Major Business
  - 9.9.3 Profilm Group Solar Film Product and Services
  - 9.9.4 Profilm Group Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Profilm Group Recent Developments/Updates
  - 9.9.6 Profilm Group Competitive Strengths & Weaknesses
- 9.10 Jiangsu Aerospace SANYOU Technology Co., Ltd.
  - 9.10.1 Jiangsu Aerospace SANYOU Technology Co., Ltd. Details
  - 9.10.2 Jiangsu Aerospace SANYOU Technology Co., Ltd. Major Business
  - 9.10.3 Jiangsu Aerospace SANYOU Technology Co., Ltd. Solar Film Product and Services
  - 9.10.4 Jiangsu Aerospace SANYOU Technology Co., Ltd. Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Jiangsu Aerospace SANYOU Technology Co., Ltd. Recent Developments/Updates
  - 9.10.6 Jiangsu Aerospace SANYOU Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 Sumitomo Riko Company Limited
  - 9.11.1 Sumitomo Riko Company Limited Details
  - 9.11.2 Sumitomo Riko Company Limited Major Business
  - 9.11.3 Sumitomo Riko Company Limited Solar Film Product and Services
  - 9.11.4 Sumitomo Riko Company Limited Solar Film Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.11.5 Sumitomo Riko Company Limited Recent Developments/Updates

9.11.6 Sumitomo Riko Company Limited Competitive Strengths & Weaknesses

## 9.12 Nan Ya Plastics Corporation

9.12.1 Nan Ya Plastics Corporation Details

9.12.2 Nan Ya Plastics Corporation Major Business

9.12.3 Nan Ya Plastics Corporation Solar Film Product and Services

9.12.4 Nan Ya Plastics Corporation Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Nan Ya Plastics Corporation Recent Developments/Updates

9.12.6 Nan Ya Plastics Corporation Competitive Strengths & Weaknesses

## 9.13 Rayno Window Film

9.13.1 Rayno Window Film Details

9.13.2 Rayno Window Film Major Business

9.13.3 Rayno Window Film Solar Film Product and Services

9.13.4 Rayno Window Film Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Rayno Window Film Recent Developments/Updates

9.13.6 Rayno Window Film Competitive Strengths & Weaknesses

## 9.14 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd.

9.14.1 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Details

9.14.2 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Major Business

9.14.3 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Solar Film Product and Services

9.14.4 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Solar Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Recent Developments/Updates

9.14.6 Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

### 10.1 Solar Film Industry Chain

### 10.2 Solar Film Upstream Analysis

10.2.1 Solar Film Core Raw Materials

10.2.2 Main Manufacturers of Solar Film Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

- 10.5 Solar Film Production Mode
- 10.6 Solar Film Procurement Model
- 10.7 Solar Film Industry Sales Model and Sales Channels
  - 10.7.1 Solar Film Sales Model
  - 10.7.2 Solar Film 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 Film Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Solar Film Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Solar Film Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Solar Film Production Value Market Share by Region (2021-2026)
- Table 5. World Solar Film Production Value Market Share by Region (2027-2032)
- Table 6. World Solar Film Production by Region (2021-2026) & (K Sqm)
- Table 7. World Solar Film Production by Region (2027-2032) & (K Sqm)
- Table 8. World Solar Film Production Market Share by Region (2021-2026)
- Table 9. World Solar Film Production Market Share by Region (2027-2032)
- Table 10. World Solar Film Average Price by Region (2021-2026) & (US\$/Sq m)
- Table 11. World Solar Film Average Price by Region (2027-2032) & (US\$/Sq m)
- Table 12. Solar Film Major Market Trends
- Table 13. World Solar Film Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)
- Table 14. World Solar Film Consumption by Region (2021-2026) & (K Sqm)
- Table 15. World Solar Film Consumption Forecast by Region (2027-2032) & (K Sqm)
- Table 16. World Solar Film Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Solar Film Producers in 2025
- Table 18. World Solar Film Production by Manufacturer (2021-2026) & (K Sqm)
- Table 19. Production Market Share of Key Solar Film Producers in 2025
- Table 20. World Solar Film Average Price by Manufacturer (2021-2026) & (US\$/Sq m)
- Table 21. Global Solar Film Company Evaluation Quadrant
- Table 22. World Solar Film Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Solar Film Production Site of Key Manufacturer
- Table 24. Solar Film Market: Company Product Type Footprint
- Table 25. Solar Film Market: Company Product Application Footprint
- Table 26. Solar Film Competitive Factors
- Table 27. Solar Film New Entrant and Capacity Expansion Plans
- Table 28. Solar Film Mergers & Acquisitions Activity
- Table 29. United States VS China Solar Film Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Solar Film Production Comparison, (2021 & 2025 &

2032) & (K Sqm)

Table 31. United States VS China Solar Film Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

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

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

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

Table 35. United States Based Manufacturers Solar Film Production (2021-2026) & (K Sqm)

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

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

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

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

Table 40. China Based Manufacturers Solar Film Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Solar Film Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Solar Film Production, (2021-2026) & (K Sqm)

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

Table 47. World Solar Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Solar Film Production by Type (2021-2026) & (K Sqm)

Table 49. World Solar Film Production by Type (2027-2032) & (K Sqm)

Table 50. World Solar Film Production Value by Type (2021-2026) & (USD Million)

Table 51. World Solar Film Production Value by Type (2027-2032) & (USD Million)

Table 52. World Solar Film Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Solar Film Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Solar Film Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Table 55. World Solar Film Production by Technology Route (2021-2026) & (K Sqm)

Table 56. World Solar Film Production by Technology Route (2027-2032) & (K Sqm)

Table 57. World Solar Film Production Value by Technology Route (2021-2026) & (USD Million)

Table 58. World Solar Film Production Value by Technology Route (2027-2032) & (USD Million)

Table 59. World Solar Film Average Price by Technology Route (2021-2026) & (US\$/Sq m)

Table 60. World Solar Film Average Price by Technology Route (2027-2032) & (US\$/Sq m)

Table 61. World Solar Film Production Value by Performance Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Solar Film Production by Performance Level (2021-2026) & (K Sqm)

Table 63. World Solar Film Production by Performance Level (2027-2032) & (K Sqm)

Table 64. World Solar Film Production Value by Performance Level (2021-2026) & (USD Million)

Table 65. World Solar Film Production Value by Performance Level (2027-2032) & (USD Million)

Table 66. World Solar Film Average Price by Performance Level (2021-2026) & (US\$/Sq m)

Table 67. World Solar Film Average Price by Performance Level (2027-2032) & (US\$/Sq m)

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

Table 69. World Solar Film Production by Application (2021-2026) & (K Sqm)

Table 70. World Solar Film Production by Application (2027-2032) & (K Sqm)

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

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

Table 73. World Solar Film Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Solar Film Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. Eastman Chemical Company Basic Information, Manufacturing Base and Competitors

Table 76. Eastman Chemical Company Major Business

Table 77. Eastman Chemical Company Solar Film Product and Services

Table 78. Eastman Chemical Company Solar Film Production (K Sqm), Price (US\$/Sq

m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Eastman Chemical Company Recent Developments/Updates

Table 80. Eastman Chemical Company Competitive Strengths & Weaknesses

Table 81. 3M Company Basic Information, Manufacturing Base and Competitors

Table 82. 3M Company Major Business

Table 83. 3M Company Solar Film Product and Services

Table 84. 3M Company Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. 3M Company Recent Developments/Updates

Table 86. 3M Company Competitive Strengths & Weaknesses

Table 87. Saint-Gobain Basic Information, Manufacturing Base and Competitors

Table 88. Saint-Gobain Major Business

Table 89. Saint-Gobain Solar Film Product and Services

Table 90. Saint-Gobain Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Saint-Gobain Recent Developments/Updates

Table 92. Saint-Gobain Competitive Strengths & Weaknesses

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

Table 94. LINTEC Corporation Major Business

Table 95. LINTEC Corporation Solar Film Product and Services

Table 96. LINTEC Corporation Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. LINTEC Corporation Recent Developments/Updates

Table 98. LINTEC Corporation Competitive Strengths & Weaknesses

Table 99. Avery Dennison Corporation Basic Information, Manufacturing Base and Competitors

Table 100. Avery Dennison Corporation Major Business

Table 101. Avery Dennison Corporation Solar Film Product and Services

Table 102. Avery Dennison Corporation Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Avery Dennison Corporation Recent Developments/Updates

Table 104. Avery Dennison Corporation Competitive Strengths & Weaknesses

Table 105. Garware Hi-Tech Films Limited Basic Information, Manufacturing Base and Competitors

Table 106. Garware Hi-Tech Films Limited Major Business

Table 107. Garware Hi-Tech Films Limited Solar Film Product and Services

Table 108. Garware Hi-Tech Films Limited Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Garware Hi-Tech Films Limited Recent Developments/Updates
- Table 110. Garware Hi-Tech Films Limited Competitive Strengths & Weaknesses
- Table 111. NEXFIL Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 112. NEXFIL Co., Ltd. Major Business
- Table 113. NEXFIL Co., Ltd. Solar Film Product and Services
- Table 114. NEXFIL Co., Ltd. Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. NEXFIL Co., Ltd. Recent Developments/Updates
- Table 116. NEXFIL Co., Ltd. Competitive Strengths & Weaknesses
- Table 117. Erickson International, LLC Basic Information, Manufacturing Base and Competitors
- Table 118. Erickson International, LLC Major Business
- Table 119. Erickson International, LLC Solar Film Product and Services
- Table 120. Erickson International, LLC Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Erickson International, LLC Recent Developments/Updates
- Table 122. Erickson International, LLC Competitive Strengths & Weaknesses
- Table 123. Profilm Group Basic Information, Manufacturing Base and Competitors
- Table 124. Profilm Group Major Business
- Table 125. Profilm Group Solar Film Product and Services
- Table 126. Profilm Group Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Profilm Group Recent Developments/Updates
- Table 128. Profilm Group Competitive Strengths & Weaknesses
- Table 129. Jiangsu Aerospace SANYOU Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 130. Jiangsu Aerospace SANYOU Technology Co., Ltd. Major Business
- Table 131. Jiangsu Aerospace SANYOU Technology Co., Ltd. Solar Film Product and Services
- Table 132. Jiangsu Aerospace SANYOU Technology Co., Ltd. Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Jiangsu Aerospace SANYOU Technology Co., Ltd. Recent Developments/Updates
- Table 134. Jiangsu Aerospace SANYOU Technology Co., Ltd. Competitive Strengths & Weaknesses
- Table 135. Sumitomo Riko Company Limited Basic Information, Manufacturing Base and Competitors
- Table 136. Sumitomo Riko Company Limited Major Business

- Table 137. Sumitomo Riko Company Limited Solar Film Product and Services
- Table 138. Sumitomo Riko Company Limited Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Sumitomo Riko Company Limited Recent Developments/Updates
- Table 140. Sumitomo Riko Company Limited Competitive Strengths & Weaknesses
- Table 141. Nan Ya Plastics Corporation Basic Information, Manufacturing Base and Competitors
- Table 142. Nan Ya Plastics Corporation Major Business
- Table 143. Nan Ya Plastics Corporation Solar Film Product and Services
- Table 144. Nan Ya Plastics Corporation Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Nan Ya Plastics Corporation Recent Developments/Updates
- Table 146. Nan Ya Plastics Corporation Competitive Strengths & Weaknesses
- Table 147. Rayno Window Film Basic Information, Manufacturing Base and Competitors
- Table 148. Rayno Window Film Major Business
- Table 149. Rayno Window Film Solar Film Product and Services
- Table 150. Rayno Window Film Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Rayno Window Film Recent Developments/Updates
- Table 152. Rayno Window Film Competitive Strengths & Weaknesses
- Table 153. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 154. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Major Business
- Table 155. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Solar Film Product and Services
- Table 156. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Solar Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Recent Developments/Updates
- Table 158. Zhejiang Shichuang Optical Film Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
- Table 159. Global Key Players of Solar Film Upstream (Raw Materials)
- Table 160. Global Solar Film Typical Customers
- Table 161. Solar Film Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Solar Film Picture

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

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

Figure 4. World Solar Film Production (2021-2032) & (K Sqm)

Figure 5. World Solar Film Average Price (2021-2032) & (US\$/Sq m)

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

Figure 7. World Solar Film Production Market Share by Region (2021-2032)

Figure 8. North America Solar Film Production (2021-2032) & (K Sqm)

Figure 9. Europe Solar Film Production (2021-2032) & (K Sqm)

Figure 10. China Solar Film Production (2021-2032) & (K Sqm)

Figure 11. Japan Solar Film Production (2021-2032) & (K Sqm)

Figure 12. Israel Solar Film Production (2021-2032) & (K Sqm)

Figure 13. South Korea Solar Film Production (2021-2032) & (K Sqm)

Figure 14. Solar Film Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Solar Film Consumption (2021-2032) & (K Sqm)

Figure 17. World Solar Film Consumption Market Share by Region (2021-2032)

Figure 18. United States Solar Film Consumption (2021-2032) & (K Sqm)

Figure 19. China Solar Film Consumption (2021-2032) & (K Sqm)

Figure 20. Europe Solar Film Consumption (2021-2032) & (K Sqm)

Figure 21. Japan Solar Film Consumption (2021-2032) & (K Sqm)

Figure 22. South Korea Solar Film Consumption (2021-2032) & (K Sqm)

Figure 23. ASEAN Solar Film Consumption (2021-2032) & (K Sqm)

Figure 24. India Solar Film Consumption (2021-2032) & (K Sqm)

Figure 25. Producer Shipments of Solar Film by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Solar Film Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Solar Film Markets in 2025

Figure 28. United States VS China: Solar Film Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Solar Film Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Solar Film Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Solar Film Production Market Share

2025

Figure 32. China Based Manufacturers Solar Film Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Solar Film Production Market Share 2025

Figure 34. World Solar Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Solar Film Production Value Market Share by Type in 2025

Figure 36. Solar Heat Rejection Films

Figure 37. Glare Reduction Films

Figure 38. Privacy Control Films

Figure 39. Other Functional Films

Figure 40. World Solar Film Production Market Share by Type (2021-2032)

Figure 41. World Solar Film Production Value Market Share by Type (2021-2032)

Figure 42. World Solar Film Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 43. World Solar Film Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Figure 44. World Solar Film Production Value Market Share by Technology Route in 2025

Figure 45. Dyed Films

Figure 46. Metallized Films

Figure 47. Other

Figure 48. World Solar Film Production Market Share by Technology Route (2021-2032)

Figure 49. World Solar Film Production Value Market Share by Technology Route (2021-2032)

Figure 50. World Solar Film Average Price by Technology Route (2021-2032) & (US\$/Sq m)

Figure 51. World Solar Film Production Value by Performance Level, (USD Million), 2021 & 2025 & 2032

Figure 52. World Solar Film Production Value Market Share by Performance Level in 2025

Figure 53. Economy Films

Figure 54. Standard Performance Films

Figure 55. High Performance Films

Figure 56. Other Performance Grades

Figure 57. World Solar Film Production Market Share by Performance Level (2021-2032)

Figure 58. World Solar Film Production Value Market Share by Performance Level (2021-2032)

Figure 59. World Solar Film Average Price by Performance Level (2021-2032) &

(US\$/Sq m)

Figure 60. World Solar Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Solar Film Production Value Market Share by Application in 2025

Figure 62. Architectural Window Films

Figure 63. Transportation Window Films

Figure 64. Other Specialty Applications

Figure 65. World Solar Film Production Market Share by Application (2021-2032)

Figure 66. World Solar Film Production Value Market Share by Application (2021-2032)

Figure 67. World Solar Film Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 68. Solar Film Industry Chain

Figure 69. Solar Film Procurement Model

Figure 70. Solar Film Sales Model

Figure 71. Solar Film Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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