

# Global Tempered Photovoltaic Glass Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Tempered Photovoltaic Glass market size was valued at USD 7070.7 million in 2023 and is forecast to a readjusted size of USD 19340 million by 2030 with a CAGR of 15.5% during review period.

Tempered photovoltaic glass is a specialized type of glass used in the construction of solar panels or photovoltaic modules, preventing environmental factors like vapors, water, and dirt from damaging the photovoltaic cells. Tempered solar panel glass also provides high strength, excellent transmissivity, and low reflection.

The key characteristic of tempered PV glass is its enhanced strength and resistance to mechanical stresses and thermal variations. This is achieved through a tempering process where the glass is heated to high temperatures and then rapidly cooled. This rapid cooling creates a surface compression on the glass, making it more robust and less prone to breakage. Tempered PV glass is also designed to have specific optical properties that allow it to efficiently transmit sunlight while minimizing reflection and maximizing light absorption by the solar cells within the panel. Anti-reflective coatings are often applied to improve light transmission and enhance the overall efficiency of the solar panel.

In summary, tempered photovoltaic glass is a specialized type of glass engineered to withstand the rigors of outdoor exposure, improve the efficiency of solar panels, and contribute to the reliable and long-term performance of photovoltaic systems used to convert sunlight into electricity.

Global key players of Tempered Photovoltaic Glass include Xinyi Solar and Flat Glass Group, etc. The top two players hold a share over 60%. China is the largest market, has a share about 80%. In terms of product type, 3.2mm is the largest segment, occupied for a share of about 67%, and in terms of application, Single Glass Module has a share about 65 percent.

The Global Info Research report includes an overview of the development of the Tempered Photovoltaic Glass industry chain, the market status of Single Glass Module (3.2mm, 2.5mm), Dual Glass Module (3.2mm, 2.5mm), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Tempered Photovoltaic Glass.

Regionally, the report analyzes the Tempered Photovoltaic Glass markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Tempered Photovoltaic Glass market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Tempered Photovoltaic Glass market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Tempered Photovoltaic Glass industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (M Sq.m), revenue generated, and market share of different by Type (e.g., 3.2mm, 2.5mm).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Tempered Photovoltaic Glass market.

**Regional Analysis:** The report involves examining the Tempered Photovoltaic Glass market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Tempered Photovoltaic Glass market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Tempered Photovoltaic Glass:

**Company Analysis:** Report covers individual Tempered Photovoltaic Glass manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Tempered Photovoltaic Glass. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Single Glass Module, Dual Glass Module).

**Technology Analysis:** Report covers specific technologies relevant to Tempered Photovoltaic Glass. It assesses the current state, advancements, and potential future developments in Tempered Photovoltaic Glass areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Tempered Photovoltaic Glass market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Tempered Photovoltaic Glass market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

3.2mm

2.5mm

2mm

Other

### Market segment by Application

Single Glass Module

Dual Glass Module

### Major players covered

Borosil Renewables

Xinyi Solar

Flat Glass Group

IRICO Group

CNBM

AVIC Sanxin

Changzhou Almaden

Dongguan CSG Solar Glass

Shenzhen Topray Solar

Henan Ancai High-tech

Changzhou Huamei Photovoltaic Materials

Xinda

Xinfuxing

Jinjing Group

Rishengda

SLT Glass

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tempered Photovoltaic Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tempered Photovoltaic Glass, with price, sales, revenue and global market share of Tempered Photovoltaic Glass from 2019 to 2024.

Chapter 3, the Tempered Photovoltaic Glass competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tempered Photovoltaic Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Tempered Photovoltaic Glass market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Tempered Photovoltaic Glass.

Chapter 14 and 15, to describe Tempered Photovoltaic Glass sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Tempered Photovoltaic Glass

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Tempered Photovoltaic Glass Consumption Value by Type:  
2019 Versus 2023 Versus 2030

1.3.2 3.2mm

1.3.3 2.5mm

1.3.4 2mm

1.3.5 Other

1.4 Market Analysis by Application

1.4.1 Overview: Global Tempered Photovoltaic Glass Consumption Value by  
Application: 2019 Versus 2023 Versus 2030

1.4.2 Single Glass Module

1.4.3 Dual Glass Module

1.5 Global Tempered Photovoltaic Glass Market Size & Forecast

1.5.1 Global Tempered Photovoltaic Glass Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Tempered Photovoltaic Glass Sales Quantity (2019-2030)

1.5.3 Global Tempered Photovoltaic Glass Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 Borosil Renewables

2.1.1 Borosil Renewables Details

2.1.2 Borosil Renewables Major Business

2.1.3 Borosil Renewables Tempered Photovoltaic Glass Product and Services

2.1.4 Borosil Renewables Tempered Photovoltaic Glass Sales Quantity, Average  
Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Borosil Renewables Recent Developments/Updates

2.2 Xinyi Solar

2.2.1 Xinyi Solar Details

2.2.2 Xinyi Solar Major Business

2.2.3 Xinyi Solar Tempered Photovoltaic Glass Product and Services

2.2.4 Xinyi Solar Tempered Photovoltaic Glass Sales Quantity, Average Price,  
Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Xinyi Solar Recent Developments/Updates

## 2.3 Flat Glass Group

### 2.3.1 Flat Glass Group Details

### 2.3.2 Flat Glass Group Major Business

### 2.3.3 Flat Glass Group Tempered Photovoltaic Glass Product and Services

### 2.3.4 Flat Glass Group Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 Flat Glass Group Recent Developments/Updates

## 2.4 IRICO Group

### 2.4.1 IRICO Group Details

### 2.4.2 IRICO Group Major Business

### 2.4.3 IRICO Group Tempered Photovoltaic Glass Product and Services

### 2.4.4 IRICO Group Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 IRICO Group Recent Developments/Updates

## 2.5 CNBM

### 2.5.1 CNBM Details

### 2.5.2 CNBM Major Business

### 2.5.3 CNBM Tempered Photovoltaic Glass Product and Services

### 2.5.4 CNBM Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 CNBM Recent Developments/Updates

## 2.6 AVIC Sanxin

### 2.6.1 AVIC Sanxin Details

### 2.6.2 AVIC Sanxin Major Business

### 2.6.3 AVIC Sanxin Tempered Photovoltaic Glass Product and Services

### 2.6.4 AVIC Sanxin Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 AVIC Sanxin Recent Developments/Updates

## 2.7 Changzhou Almaden

### 2.7.1 Changzhou Almaden Details

### 2.7.2 Changzhou Almaden Major Business

### 2.7.3 Changzhou Almaden Tempered Photovoltaic Glass Product and Services

### 2.7.4 Changzhou Almaden Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 Changzhou Almaden Recent Developments/Updates

## 2.8 Dongguan CSG Solar Glass

### 2.8.1 Dongguan CSG Solar Glass Details

### 2.8.2 Dongguan CSG Solar Glass Major Business

### 2.8.3 Dongguan CSG Solar Glass Tempered Photovoltaic Glass Product and Services



2.8.4 Dongguan CSG Solar Glass Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Dongguan CSG Solar Glass Recent Developments/Updates

2.9 Shenzhen Topray Solar

2.9.1 Shenzhen Topray Solar Details

2.9.2 Shenzhen Topray Solar Major Business

2.9.3 Shenzhen Topray Solar Tempered Photovoltaic Glass Product and Services

2.9.4 Shenzhen Topray Solar Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Shenzhen Topray Solar Recent Developments/Updates

2.10 Henan Ancai High-tech

2.10.1 Henan Ancai High-tech Details

2.10.2 Henan Ancai High-tech Major Business

2.10.3 Henan Ancai High-tech Tempered Photovoltaic Glass Product and Services

2.10.4 Henan Ancai High-tech Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Henan Ancai High-tech Recent Developments/Updates

2.11 Changzhou Huamei Photovoltaic Materials

2.11.1 Changzhou Huamei Photovoltaic Materials Details

2.11.2 Changzhou Huamei Photovoltaic Materials Major Business

2.11.3 Changzhou Huamei Photovoltaic Materials Tempered Photovoltaic Glass Product and Services

2.11.4 Changzhou Huamei Photovoltaic Materials Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Changzhou Huamei Photovoltaic Materials Recent Developments/Updates

2.12 Xinda

2.12.1 Xinda Details

2.12.2 Xinda Major Business

2.12.3 Xinda Tempered Photovoltaic Glass Product and Services

2.12.4 Xinda Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Xinda Recent Developments/Updates

2.13 Xinfuxing

2.13.1 Xinfuxing Details

2.13.2 Xinfuxing Major Business

2.13.3 Xinfuxing Tempered Photovoltaic Glass Product and Services

2.13.4 Xinfuxing Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Xinfuxing Recent Developments/Updates

## 2.14 Jinjing Group

### 2.14.1 Jinjing Group Details

### 2.14.2 Jinjing Group Major Business

### 2.14.3 Jinjing Group Tempered Photovoltaic Glass Product and Services

### 2.14.4 Jinjing Group Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.14.5 Jinjing Group Recent Developments/Updates

## 2.15 Rishengda

### 2.15.1 Rishengda Details

### 2.15.2 Rishengda Major Business

### 2.15.3 Rishengda Tempered Photovoltaic Glass Product and Services

### 2.15.4 Rishengda Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.15.5 Rishengda Recent Developments/Updates

## 2.16 SLT Glass

### 2.16.1 SLT Glass Details

### 2.16.2 SLT Glass Major Business

### 2.16.3 SLT Glass Tempered Photovoltaic Glass Product and Services

### 2.16.4 SLT Glass Tempered Photovoltaic Glass Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.16.5 SLT Glass Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: TEMPERED PHOTOVOLTAIC GLASS BY MANUFACTURER**

### 3.1 Global Tempered Photovoltaic Glass Sales Quantity by Manufacturer (2019-2024)

### 3.2 Global Tempered Photovoltaic Glass Revenue by Manufacturer (2019-2024)

### 3.3 Global Tempered Photovoltaic Glass Average Price by Manufacturer (2019-2024)

### 3.4 Market Share Analysis (2023)

#### 3.4.1 Producer Shipments of Tempered Photovoltaic Glass by Manufacturer Revenue (\$MM) and Market Share (%): 2023

#### 3.4.2 Top 3 Tempered Photovoltaic Glass Manufacturer Market Share in 2023

#### 3.4.2 Top 6 Tempered Photovoltaic Glass Manufacturer Market Share in 2023

### 3.5 Tempered Photovoltaic Glass Market: Overall Company Footprint Analysis

#### 3.5.1 Tempered Photovoltaic Glass Market: Region Footprint

#### 3.5.2 Tempered Photovoltaic Glass Market: Company Product Type Footprint

#### 3.5.3 Tempered Photovoltaic Glass Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Tempered Photovoltaic Glass Market Size by Region
  - 4.1.1 Global Tempered Photovoltaic Glass Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Tempered Photovoltaic Glass Consumption Value by Region (2019-2030)
  - 4.1.3 Global Tempered Photovoltaic Glass Average Price by Region (2019-2030)
- 4.2 North America Tempered Photovoltaic Glass Consumption Value (2019-2030)
- 4.3 Europe Tempered Photovoltaic Glass Consumption Value (2019-2030)
- 4.4 Asia-Pacific Tempered Photovoltaic Glass Consumption Value (2019-2030)
- 4.5 South America Tempered Photovoltaic Glass Consumption Value (2019-2030)
- 4.6 Middle East and Africa Tempered Photovoltaic Glass Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Tempered Photovoltaic Glass Sales Quantity by Type (2019-2030)
- 5.2 Global Tempered Photovoltaic Glass Consumption Value by Type (2019-2030)
- 5.3 Global Tempered Photovoltaic Glass Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Tempered Photovoltaic Glass Sales Quantity by Application (2019-2030)
- 6.2 Global Tempered Photovoltaic Glass Consumption Value by Application (2019-2030)
- 6.3 Global Tempered Photovoltaic Glass Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Tempered Photovoltaic Glass Sales Quantity by Type (2019-2030)
- 7.2 North America Tempered Photovoltaic Glass Sales Quantity by Application (2019-2030)
- 7.3 North America Tempered Photovoltaic Glass Market Size by Country
  - 7.3.1 North America Tempered Photovoltaic Glass Sales Quantity by Country (2019-2030)
  - 7.3.2 North America Tempered Photovoltaic Glass Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

8.1 Europe Tempered Photovoltaic Glass Sales Quantity by Type (2019-2030)

8.2 Europe Tempered Photovoltaic Glass Sales Quantity by Application (2019-2030)

8.3 Europe Tempered Photovoltaic Glass Market Size by Country

8.3.1 Europe Tempered Photovoltaic Glass Sales Quantity by Country (2019-2030)

8.3.2 Europe Tempered Photovoltaic Glass Consumption Value by Country  
(2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Application  
(2019-2030)

9.3 Asia-Pacific Tempered Photovoltaic Glass Market Size by Region

9.3.1 Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Tempered Photovoltaic Glass Consumption Value by Region  
(2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America Tempered Photovoltaic Glass Sales Quantity by Type (2019-2030)

10.2 South America Tempered Photovoltaic Glass Sales Quantity by Application  
(2019-2030)

10.3 South America Tempered Photovoltaic Glass Market Size by Country

10.3.1 South America Tempered Photovoltaic Glass Sales Quantity by Country

(2019-2030)

10.3.2 South America Tempered Photovoltaic Glass Consumption Value by Country

(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Type

(2019-2030)

11.2 Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Application

(2019-2030)

11.3 Middle East & Africa Tempered Photovoltaic Glass Market Size by Country

11.3.1 Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Country

(2019-2030)

11.3.2 Middle East & Africa Tempered Photovoltaic Glass Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 Tempered Photovoltaic Glass Market Drivers

12.2 Tempered Photovoltaic Glass Market Restraints

12.3 Tempered Photovoltaic Glass Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Tempered Photovoltaic Glass and Key Manufacturers

13.2 Manufacturing Costs Percentage of Tempered Photovoltaic Glass

13.3 Tempered Photovoltaic Glass Production Process

13.4 Tempered Photovoltaic Glass Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Tempered Photovoltaic Glass Typical Distributors

14.3 Tempered Photovoltaic Glass Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Tempered Photovoltaic Glass Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Tempered Photovoltaic Glass Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Borosil Renewables Basic Information, Manufacturing Base and Competitors

Table 4. Borosil Renewables Major Business

Table 5. Borosil Renewables Tempered Photovoltaic Glass Product and Services

Table 6. Borosil Renewables Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Borosil Renewables Recent Developments/Updates

Table 8. Xinyi Solar Basic Information, Manufacturing Base and Competitors

Table 9. Xinyi Solar Major Business

Table 10. Xinyi Solar Tempered Photovoltaic Glass Product and Services

Table 11. Xinyi Solar Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Xinyi Solar Recent Developments/Updates

Table 13. Flat Glass Group Basic Information, Manufacturing Base and Competitors

Table 14. Flat Glass Group Major Business

Table 15. Flat Glass Group Tempered Photovoltaic Glass Product and Services

Table 16. Flat Glass Group Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Flat Glass Group Recent Developments/Updates

Table 18. IRICO Group Basic Information, Manufacturing Base and Competitors

Table 19. IRICO Group Major Business

Table 20. IRICO Group Tempered Photovoltaic Glass Product and Services

Table 21. IRICO Group Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. IRICO Group Recent Developments/Updates

Table 23. CNBM Basic Information, Manufacturing Base and Competitors

Table 24. CNBM Major Business

Table 25. CNBM Tempered Photovoltaic Glass Product and Services

Table 26. CNBM Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. CNBM Recent Developments/Updates

Table 28. AVIC Sanxin Basic Information, Manufacturing Base and Competitors

Table 29. AVIC Sanxin Major Business

Table 30. AVIC Sanxin Tempered Photovoltaic Glass Product and Services

Table 31. AVIC Sanxin Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. AVIC Sanxin Recent Developments/Updates

Table 33. Changzhou Almaden Basic Information, Manufacturing Base and Competitors

Table 34. Changzhou Almaden Major Business

Table 35. Changzhou Almaden Tempered Photovoltaic Glass Product and Services

Table 36. Changzhou Almaden Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Changzhou Almaden Recent Developments/Updates

Table 38. Dongguan CSG Solar Glass Basic Information, Manufacturing Base and Competitors

Table 39. Dongguan CSG Solar Glass Major Business

Table 40. Dongguan CSG Solar Glass Tempered Photovoltaic Glass Product and Services

Table 41. Dongguan CSG Solar Glass Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Dongguan CSG Solar Glass Recent Developments/Updates

Table 43. Shenzhen Topray Solar Basic Information, Manufacturing Base and Competitors

Table 44. Shenzhen Topray Solar Major Business

Table 45. Shenzhen Topray Solar Tempered Photovoltaic Glass Product and Services

Table 46. Shenzhen Topray Solar Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Shenzhen Topray Solar Recent Developments/Updates

Table 48. Henan Ancai High-tech Basic Information, Manufacturing Base and Competitors

Table 49. Henan Ancai High-tech Major Business

Table 50. Henan Ancai High-tech Tempered Photovoltaic Glass Product and Services

Table 51. Henan Ancai High-tech Tempered Photovoltaic Glass Sales Quantity (M



Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Henan Ancai High-tech Recent Developments/Updates

Table 53. Changzhou Huamei Photovoltaic Materials Basic Information, Manufacturing Base and Competitors

Table 54. Changzhou Huamei Photovoltaic Materials Major Business

Table 55. Changzhou Huamei Photovoltaic Materials Tempered Photovoltaic Glass Product and Services

Table 56. Changzhou Huamei Photovoltaic Materials Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Changzhou Huamei Photovoltaic Materials Recent Developments/Updates

Table 58. Xinda Basic Information, Manufacturing Base and Competitors

Table 59. Xinda Major Business

Table 60. Xinda Tempered Photovoltaic Glass Product and Services

Table 61. Xinda Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Xinda Recent Developments/Updates

Table 63. Xinfuxing Basic Information, Manufacturing Base and Competitors

Table 64. Xinfuxing Major Business

Table 65. Xinfuxing Tempered Photovoltaic Glass Product and Services

Table 66. Xinfuxing Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Xinfuxing Recent Developments/Updates

Table 68. Jinjing Group Basic Information, Manufacturing Base and Competitors

Table 69. Jinjing Group Major Business

Table 70. Jinjing Group Tempered Photovoltaic Glass Product and Services

Table 71. Jinjing Group Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Jinjing Group Recent Developments/Updates

Table 73. Rishengda Basic Information, Manufacturing Base and Competitors

Table 74. Rishengda Major Business

Table 75. Rishengda Tempered Photovoltaic Glass Product and Services

Table 76. Rishengda Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Rishengda Recent Developments/Updates

- Table 78. SLT Glass Basic Information, Manufacturing Base and Competitors
- Table 79. SLT Glass Major Business
- Table 80. SLT Glass Tempered Photovoltaic Glass Product and Services
- Table 81. SLT Glass Tempered Photovoltaic Glass Sales Quantity (M Sq.m), Average Price (USD/Sq.m), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 82. SLT Glass Recent Developments/Updates
- Table 83. Global Tempered Photovoltaic Glass Sales Quantity by Manufacturer (2019-2024) & (M Sq.m)
- Table 84. Global Tempered Photovoltaic Glass Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 85. Global Tempered Photovoltaic Glass Average Price by Manufacturer (2019-2024) & (USD/Sq.m)
- Table 86. Market Position of Manufacturers in Tempered Photovoltaic Glass, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 87. Head Office and Tempered Photovoltaic Glass Production Site of Key Manufacturer
- Table 88. Tempered Photovoltaic Glass Market: Company Product Type Footprint
- Table 89. Tempered Photovoltaic Glass Market: Company Product Application Footprint
- Table 90. Tempered Photovoltaic Glass New Market Entrants and Barriers to Market Entry
- Table 91. Tempered Photovoltaic Glass Mergers, Acquisition, Agreements, and Collaborations
- Table 92. Global Tempered Photovoltaic Glass Sales Quantity by Region (2019-2024) & (M Sq.m)
- Table 93. Global Tempered Photovoltaic Glass Sales Quantity by Region (2025-2030) & (M Sq.m)
- Table 94. Global Tempered Photovoltaic Glass Consumption Value by Region (2019-2024) & (USD Million)
- Table 95. Global Tempered Photovoltaic Glass Consumption Value by Region (2025-2030) & (USD Million)
- Table 96. Global Tempered Photovoltaic Glass Average Price by Region (2019-2024) & (USD/Sq.m)
- Table 97. Global Tempered Photovoltaic Glass Average Price by Region (2025-2030) & (USD/Sq.m)
- Table 98. Global Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)
- Table 99. Global Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) & (M Sq.m)

Table 100. Global Tempered Photovoltaic Glass Consumption Value by Type (2019-2024) & (USD Million)

Table 101. Global Tempered Photovoltaic Glass Consumption Value by Type (2025-2030) & (USD Million)

Table 102. Global Tempered Photovoltaic Glass Average Price by Type (2019-2024) & (USD/Sq.m)

Table 103. Global Tempered Photovoltaic Glass Average Price by Type (2025-2030) & (USD/Sq.m)

Table 104. Global Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 105. Global Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 106. Global Tempered Photovoltaic Glass Consumption Value by Application (2019-2024) & (USD Million)

Table 107. Global Tempered Photovoltaic Glass Consumption Value by Application (2025-2030) & (USD Million)

Table 108. Global Tempered Photovoltaic Glass Average Price by Application (2019-2024) & (USD/Sq.m)

Table 109. Global Tempered Photovoltaic Glass Average Price by Application (2025-2030) & (USD/Sq.m)

Table 110. North America Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)

Table 111. North America Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) & (M Sq.m)

Table 112. North America Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 113. North America Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 114. North America Tempered Photovoltaic Glass Sales Quantity by Country (2019-2024) & (M Sq.m)

Table 115. North America Tempered Photovoltaic Glass Sales Quantity by Country (2025-2030) & (M Sq.m)

Table 116. North America Tempered Photovoltaic Glass Consumption Value by Country (2019-2024) & (USD Million)

Table 117. North America Tempered Photovoltaic Glass Consumption Value by Country (2025-2030) & (USD Million)

Table 118. Europe Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)

Table 119. Europe Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) &

(M Sq.m)

Table 120. Europe Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 121. Europe Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 122. Europe Tempered Photovoltaic Glass Sales Quantity by Country (2019-2024) & (M Sq.m)

Table 123. Europe Tempered Photovoltaic Glass Sales Quantity by Country (2025-2030) & (M Sq.m)

Table 124. Europe Tempered Photovoltaic Glass Consumption Value by Country (2019-2024) & (USD Million)

Table 125. Europe Tempered Photovoltaic Glass Consumption Value by Country (2025-2030) & (USD Million)

Table 126. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)

Table 127. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) & (M Sq.m)

Table 128. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 129. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 130. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Region (2019-2024) & (M Sq.m)

Table 131. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity by Region (2025-2030) & (M Sq.m)

Table 132. Asia-Pacific Tempered Photovoltaic Glass Consumption Value by Region (2019-2024) & (USD Million)

Table 133. Asia-Pacific Tempered Photovoltaic Glass Consumption Value by Region (2025-2030) & (USD Million)

Table 134. South America Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)

Table 135. South America Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) & (M Sq.m)

Table 136. South America Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 137. South America Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 138. South America Tempered Photovoltaic Glass Sales Quantity by Country (2019-2024) & (M Sq.m)

Table 139. South America Tempered Photovoltaic Glass Sales Quantity by Country (2025-2030) & (M Sq.m)

Table 140. South America Tempered Photovoltaic Glass Consumption Value by Country (2019-2024) & (USD Million)

Table 141. South America Tempered Photovoltaic Glass Consumption Value by Country (2025-2030) & (USD Million)

Table 142. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Type (2019-2024) & (M Sq.m)

Table 143. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Type (2025-2030) & (M Sq.m)

Table 144. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Application (2019-2024) & (M Sq.m)

Table 145. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Application (2025-2030) & (M Sq.m)

Table 146. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Region (2019-2024) & (M Sq.m)

Table 147. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity by Region (2025-2030) & (M Sq.m)

Table 148. Middle East & Africa Tempered Photovoltaic Glass Consumption Value by Region (2019-2024) & (USD Million)

Table 149. Middle East & Africa Tempered Photovoltaic Glass Consumption Value by Region (2025-2030) & (USD Million)

Table 150. Tempered Photovoltaic Glass Raw Material

Table 151. Key Manufacturers of Tempered Photovoltaic Glass Raw Materials

Table 152. Tempered Photovoltaic Glass Typical Distributors

Table 153. Tempered Photovoltaic Glass Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Tempered Photovoltaic Glass Picture

Figure 2. Global Tempered Photovoltaic Glass Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Tempered Photovoltaic Glass Consumption Value Market Share by Type in 2023

Figure 4. 3.2mm Examples

Figure 5. 2.5mm Examples

Figure 6. 2mm Examples

Figure 7. Other Examples

Figure 8. Global Tempered Photovoltaic Glass Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global Tempered Photovoltaic Glass Consumption Value Market Share by Application in 2023

Figure 10. Single Glass Module Examples

Figure 11. Dual Glass Module Examples

Figure 12. Global Tempered Photovoltaic Glass Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global Tempered Photovoltaic Glass Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global Tempered Photovoltaic Glass Sales Quantity (2019-2030) & (M Sq.m)

Figure 15. Global Tempered Photovoltaic Glass Average Price (2019-2030) & (USD/Sq.m)

Figure 16. Global Tempered Photovoltaic Glass Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global Tempered Photovoltaic Glass Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of Tempered Photovoltaic Glass by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 Tempered Photovoltaic Glass Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 Tempered Photovoltaic Glass Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global Tempered Photovoltaic Glass Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Tempered Photovoltaic Glass Consumption Value Market Share by

Region (2019-2030)

Figure 23. North America Tempered Photovoltaic Glass Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe Tempered Photovoltaic Glass Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Tempered Photovoltaic Glass Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Tempered Photovoltaic Glass Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Tempered Photovoltaic Glass Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Tempered Photovoltaic Glass Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Tempered Photovoltaic Glass Average Price by Type (2019-2030) & (USD/Sq.m)

Figure 31. Global Tempered Photovoltaic Glass Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Tempered Photovoltaic Glass Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Tempered Photovoltaic Glass Average Price by Application (2019-2030) & (USD/Sq.m)

Figure 34. North America Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Tempered Photovoltaic Glass Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Tempered Photovoltaic Glass Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Tempered Photovoltaic Glass Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe Tempered Photovoltaic Glass Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe Tempered Photovoltaic Glass Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe Tempered Photovoltaic Glass Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific Tempered Photovoltaic Glass Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific Tempered Photovoltaic Glass Consumption Value Market Share by Region (2019-2030)

Figure 54. China Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America Tempered Photovoltaic Glass Sales Quantity Market Share



by Application (2019-2030)

Figure 62. South America Tempered Photovoltaic Glass Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Tempered Photovoltaic Glass Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Tempered Photovoltaic Glass Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Tempered Photovoltaic Glass Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Tempered Photovoltaic Glass Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Tempered Photovoltaic Glass Market Drivers

Figure 75. Tempered Photovoltaic Glass Market Restraints

Figure 76. Tempered Photovoltaic Glass Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Tempered Photovoltaic Glass in 2023

Figure 79. Manufacturing Process Analysis of Tempered Photovoltaic Glass

Figure 80. Tempered Photovoltaic Glass Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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