

Global Tempered Solar PV Glass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tempered Solar PV Glass market size is expected to reach \$ 18689 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Tempered solar photovoltaic (PV) glass is a type of low-iron, high-transmittance glass treated through physical or chemical tempering processes; it is primarily used for the front cover sheets of PV modules or for the encapsulation of dual-glass modules. Characterized by high light transmittance, high mechanical strength, impact resistance, thermal shock resistance, weatherability, and safety, it protects solar cells and enhances the long-term power generation reliability of the modules.

Upstream inputs primarily include quartz sand, soda ash, dolomite, limestone, low-iron raw materials, fuels, and coating materials. Downstream applications span sectors such as PV modules, power plant development, distributed PV, building-integrated photovoltaics (BIPV), commercial and industrial rooftop installations, and new energy engineering projects.

The global market for tempered solar PV glass features a unit price of \$390 per ton, with annual sales of approximately 32.1 million tons and a global annual production capacity of around 40.5 million tons; the industry profit margin stands at 18%.

The future global market for tempered solar PV glass will be driven by the growth of PV installations, the widespread adoption of dual-glass modules, and the construction of large-scale ground-mounted power plants. Products will continue to evolve toward thinner specifications, higher light transmittance, superior mechanical properties, and lower reflectivity, with expanded application of anti-reflective coatings, patterned

structures, and highly weather-resistant surface treatments. As demand for large-format modules and lightweight designs increases, key areas of competition will include ultra-thin tempering technology, uniform stress control, and high-yield deep-processing capabilities. The industry will also intensify efforts in furnace energy conservation, waste heat recovery, the use of low-carbon fuels, and waste glass recycling to reduce production energy consumption and carbon emissions. Enterprises possessing capabilities in large-scale production, stable raw material supply, quality control, and global customer certification will further consolidate their market advantages.

Report Scope

This report studies the global Tempered Solar PV Glass production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Tempered Solar PV Glass total production and demand, 2021-2032, (Kilotons)

Global Tempered Solar PV Glass total production value, 2021-2032, (USD Million)

Global Tempered Solar PV Glass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Tempered Solar PV Glass consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Tempered Solar PV Glass domestic production, consumption, key domestic manufacturers and share

Global Tempered Solar PV Glass production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Kilotons)

Global Tempered Solar PV Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Tempered Solar PV Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Tempered Solar PV Glass 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 Xinyi Solar, Flat Glass Group, Kibing Solar, CSG Holding, Triumph New Energy, IRICO Group New Energy, Almaden, Jinjing Group, Taiwan Glass, Borosil Renewables, 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 Tempered Solar PV Glass 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 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 Tempered Solar PV Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tempered Solar PV Glass Market, Segmentation by Type:

Rolled Photovoltaic Glass

Float Photovoltaic Glass

Patterned Rolled Photovoltaic Glass

Ultra-thin Float Photovoltaic Glass

Global Tempered Solar PV Glass Market, Segmentation by Tempering Method:

Physically Tempered Photovoltaic Glass

Chemically Tempered Photovoltaic Glass

Global Tempered Solar PV Glass Market, Segmentation by Glass Thickness:

4.0mm

3.2mm

2.5mm

2.0mm

1.8mm

1.6mm

Global Tempered Solar PV Glass Market, Segmentation by Application:

Utility-scale Photovoltaic Module

Distributed Photovoltaic Module

Rooftop Photovoltaic Module

Vehicle-integrated Photovoltaic

Companies Profiled:

Xinyi Solar

Flat Glass Group

Kibing Solar

CSG Holding

Triumph New Energy

IRICO Group New Energy

Almaden

Jinjing Group

Taiwan Glass

Borosil Renewables

Pyrocam

NSG Group

AGC

Vitro Architectural Glass

Onyx Solar

Brite Solar

ACHT

China Luoyang Float Glass Group

Key Questions Answered:

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

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