

Flat Glass Market Forecasts to 2030 – Global Analysis By Product (Annealed Glass, Tempered Glass, Laminated Glass, Coated Glass and Other Products), Type, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Flat Glass Market is accounted for \$153.51 billion in 2024 and is expected to reach \$239.58 billion by 2030 growing at a CAGR of 7.7% during the forecast period. Flat glass is a kind of glass that is produced in thin, flat sheets and is frequently utilised in industrial, automotive, and construction settings. It is made using techniques such as the float glass method, which creates uniformly flat sheets by spreading molten glass over a layer of molten tin. Windows, doors, mirrors, solar panels, and car windscreens are all made of flat glass. For increased strength, security, and energy efficiency, it can be further processed into coated, laminated, or tempered glass.

Market Dynamics:

Driver:

Rising adoption of solar energy

The demand for premium flat glass has increased as a result of increased government incentives and regulations supporting renewable energy, which have increased the installation of solar panels. Solar glass's efficiency and uptake are further increased by technological developments including anti-reflective coatings and durability enhancements. Flat glass manufacturing and consumption are also on the rise due to rapid urbanisation and the move to renewable energy sources. Additionally, a significant amount of tempered and coated flat glass is required due to the expanding number of

solar farms being built globally. The market for flat glass is thus growing rapidly, in line with the worldwide movement towards renewable energy solutions.

Restraint:

Brittle nature & handling issues

Handling issues arise due to its heavy weight and sharp edges, increasing the risk of accidents and damage. Regular breaks result in increased material waste, which drives up manufacturing costs for producers. Distribution is difficult due to specialised packing and delivery techniques that raise logistical costs. Its implementation is made more difficult by end customers' requirements for sophisticated safety precautions, such as those in the automobile and construction sectors. By raising prices and preventing widespread acceptance, these issues work together to impede the market expansion for flat glass.

Opportunity:

Growing demand for energy-efficient glass

Low-emissivity (Low-E) and solar-control glass are becoming more popular as consumers and businesses look for sustainable ways to cut energy use. Governments across the world impose strict energy restrictions, which incentivise the use of high-performance glass in the automobile and construction industries. Market expansion is further accelerated by growing urbanisation and green building efforts. Technological developments improve flat glass's durability and efficiency, increasing its appeal for a range of uses. In order to satisfy changing demands for energy efficiency, manufacturers invest in cutting-edge coatings and smart glass solutions.

Threat:

Economic slowdowns & geopolitical instabilities

Infrastructure and real estate investments decline as a result of a decline in consumer expenditure and industrial activity. Supply chains are disrupted by geopolitical instability, which results in price volatility and shortages of raw materials. International glass commerce is further impacted by trade restrictions and taxes, which raise manufacturing costs. Businesses are reluctant to grow when the economy is uncertain, which impedes innovation and capacity expansion. All things considered, these elements make the flat

glass industry difficult to operate in, which restricts its potential for expansion and financial success.

Covid-19 Impact

The COVID-19 pandemic disrupted the flat glass market due to supply chain constraints, labor shortages, and halted construction activities. Lockdowns led to reduced demand from the automotive and construction sectors, key consumers of flat glass. However, the market saw a gradual recovery with the resumption of infrastructure projects and increased demand for solar panels. The shift toward sustainable energy sources and technological advancements in glass manufacturing further accelerated growth post-pandemic, helping the industry regain stability.

The mirrored glass segment is expected to be the largest during the forecast period

The mirrored glass segment is expected to account for the largest market share during the forecast period by driving demand in interior design, architecture, and automotive applications. It is well-liked in both residential and commercial settings because of its visual appeal and practical advantages, such as improved lighting and energy efficiency. Its acceptance is further aided by the rising popularity of beautiful glass and smart mirrors. Furthermore, improvements in manufacturing technology increase cost-effectiveness and durability, drawing in more customers. The need for mirrored glass is being driven by increased urbanisation and infrastructure development worldwide, which is supporting the flat glass industry as a whole.

The electronics & appliances segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the electronics & appliances segment is predicted to witness the highest growth rate, due to high-quality glass in display screens, smart devices, and home appliances. Flat glass is essential for manufacturing LED, OLED, and touchscreen panels, which are widely used in smartphones, tablets, and televisions. Energy-efficient refrigerators, ovens, and washing machines also incorporate flat glass for durability and aesthetics. The rise of smart homes and IoT-connected appliances further boosts the need for specialized glass with advanced coatings. Continuous technological advancements in consumer electronics sustain the growth of the flat glass market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid urbanization and increasing demand from the automotive. Countries like China, India, and Japan dominate the market due to rising construction activities and government initiatives promoting renewable energy. Technological advancements in energy-efficient and smart glass further boost demand. The presence of major manufacturers and expanding production capacities enhance regional supply. Additionally, the growing adoption of lightweight, high-performance glass in vehicles and electronics fuels market expansion across Asia-Pacific.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to the increased demand from the construction, automotive and solar energy industries. Rising urbanization, infrastructure development, and the shift toward energy-efficient buildings are boosting demand for advanced glass products like low-emissivity (Low-E) and insulated glass. The automotive sector also plays a key role, with growing adoption of lightweight, high-performance glass for improved fuel efficiency. Additionally, the push for renewable energy has accelerated demand for solar control and photovoltaic glass. Major manufacturers are investing in innovation and sustainable production, further enhancing market expansion across the United States and Canada.

Key players in the market

Some of the key players profiled in the Flat Glass Market include NSG Group (Nippon Sheet Glass Co., Ltd.), Saint-Gobain, Guardian Industries, Schott AG, Sisecam, Asahi Glass Co., Ltd. (AGC Inc.), China National Building Material Group Corporation (CNBM), Taiwan Glass Ind. Corp., Vitro S.A.B. de C.V., Xinyi Glass Holdings Limited, Fuyao Glass Industry Group Co., Ltd., Central Glass Co., Ltd., Euroglas GmbH, AGC Flat Glass Europe, Saint-Gobain Glass India, PPG Industries and Vitro Architectural Glass.

Key Developments:

In April 2024, Vitro announced a partnership with the Pittsburgh Steelers, becoming the first partner of the team in Mexico as part of the NFL Global Markets Program. This partnership allows Vitro to engage with the Steelers' fanbase in Mexico and Western Pennsylvania, promoting its innovative glass solutions.

In July 2023, FGC Group acquired NSG Group's assets in Russia, including the Pilkington Glass Russia plant and STiS Group. STiS Group operates eight production sites across Russia, specializing in double-glazed windows and specialized glass products. This acquisition expanded FGC Group's presence in the glass market.

Products Covered:

Annealed Glass

Tempered Glass

Laminated Glass

Coated Glass

Mirrored Glass

Patterned Glass

Extra Clear Glass

Other Products

Types Covered:

Float

Sheet

Rolled

Applications Covered:

Windows & Doors

Facades & Curtain Walls

Furniture & Table Tops

Automotive Glass

Solar Glass

Skylights

Interior Partitions

Other Applications

End Users Covered:

Building & Construction

Automotive & Transportation

Solar Energy

Electronics & Appliances

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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