Solar Control Glass Market Forecasts to 2030 – Global Analysis By Glass Type (Float Glass, Tempered Glass, Laminated Glass, Heat-Strengthened Glass, Tinted Glass, and Other Glass Types), Nature, Coating Type, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Solar Control Glass Market is accounted for $7.95 billion in 2024 and is expected to reach $15.61 billion by 2030 growing at a CAGR of 11.9% during the forecast period. Solar Control Glass is a type of glass designed to reduce the amount of solar radiation transmitted through windows, enhancing energy efficiency in buildings and vehicles. It is typically coated or tinted to reflect or absorb heat and UV radiation while allowing visible light to pass through. This helps maintain indoor comfort by reducing glare, preventing excessive heat build-up, and lowering energy costs for cooling.

According to the U.S. Census Bureau, construction spending in the country for June 2024 was estimated at USD 2,148.4 billion with a Seasonally Adjusted Annual Rate (SAAR).

Market Dynamics:

Driver:

Rising awareness of sustainability

The use of solar control glass in buildings and automobiles is growing as more sectors and customers place a higher value on environmentally friendly solutions. By reducing solar heat gain, this kind of glass lowers the demand for air conditioning, saving energy

and lowering carbon emissions. The demand for solar control glass is further increased by the emphasis on green building standards and sustainable construction methods. As a result, the market is anticipated to increase significantly due to growing sustainability awareness.

Restraint:

High initial cost

The advanced technology and materials used in manufacturing solar control glass make it more expensive than traditional glass. This cost factor can deter potential buyers, especially in developing regions with limited budgets. Additionally, the installation and maintenance costs of solar control glass can further add to the overall expenses. These financial challenges hinder the widespread adoption of solar control glass, particularly among cost-sensitive customers.

Opportunity:

Increased demand in automotive sector

Solar control glass is increasingly being used in vehicles to enhance passenger comfort by reducing heat and glare. The automotive industry is focused on improving fuel efficiency and reducing emissions, making solar control glass an attractive option. The growing trend of electric vehicles further drives the demand for energy-efficient solutions, including solar control glass. The continuous innovation in automotive glass technology and the rising preference for advanced glazing solutions contribute to the market's expansion.

Threat:

Complex manufacturing process

Strict quality assurance procedures, accurate material control, and specialized equipment are needed to produce high-quality sun control glass. Any deviation from the specified parameters can lead to defects and reduced performance, affecting the overall product quality. The high level of expertise required in the manufacturing process can result in higher production costs and longer lead times. These challenges can hinder the scalability and widespread adoption of solar control glass, especially among smaller manufacturers.

Covid-19 Impact

The COVID-19 pandemic initially disrupted the Solar Control Glass market due to global supply chain disruptions, factory shutdowns, and delays in construction projects. Reduced demand from the automotive and construction industries further impacted growth. However, as economies began to recover, there was a rebound in demand driven by the need for energy-efficient buildings and sustainable solutions. The pandemic also accelerated the focus on health and sustainability, creating new opportunities for solar control glass, particularly in green building and automotive applications.

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

The float glass segment is expected to account for the largest market share during the forecast period, due to the continuous advancements in float glass production technology and the development of new coatings enhance its performance in solar control applications. Additionally, the increasing focus on sustainable construction practices and energy-efficient buildings drives the demand for float glass. As a result, the float glass segment is anticipated to dominate the market during the forecast period.

The photochromic segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the photochromic segment is predicted to witness the highest growth rate, due to the rising adoption of smart glass technologies. Photochromic glass automatically adjusts its tint in response to changes in light intensity, providing enhanced comfort and energy savings. This type of glass is gaining popularity in both residential and commercial buildings, as well as in automotive applications. The growing demand for smart and adaptive building solutions drives the adoption of photochromic glass.

Region with largest share:

During the forecast period, Asia Pacific region is expected to hold the largest market share, due to the increasing construction activities and the growing automotive industry drive the demand for solar control glass in this region. Additionally, the presence of a large number of manufacturers and favourable government policies supporting energy-efficient building solutions contribute to the market's expansion. The rising awareness of sustainability and environmental conservation further enhances the adoption of solar control glass.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to the presence of major automotive manufacturers and the focus on innovation and sustainability drive the adoption of solar control glass in various applications. Additionally, the continuous advancements in smart glass technologies and the increasing preference for advanced glazing solutions contribute to the region's expansion. The supportive government policies and incentives for energy-efficient building solutions in North America create significant growth opportunities for the solar control glass market.

Key players in the market

Some of the key players profiled in the Solar Control Glass Market include Saint-Gobain, Guardian Glass, AGC Inc., NSG Group (Nippon Sheet Glass), PPG Industries, Kastamonu Entegre (KPP), Cardinal Glass Industries, Trakya Cam Sanayi ve Ticaret A.S., Tata Steel, Jumbo Glass, Xinyi Glass, Viracon, Bohle Ltd., Fuyao Glass Industry Group Co., Ltd., and Vitro Architectural Glass.

Key Developments:

In February 2025, Saint-Gobain has completed the acquisition announced on June 27, 2024, of FOSROC, a leading global construction chemicals player with a strong geographic footprint in India, the Middle East and Asia-Pacific in particular.

In January 2023, Guardian Glass and Vortex Glass have announced an agreement for Guardian to acquire the assets of Vortex, a Miami, Florida fabrication business. The transaction allows Guardian Glass to expand its make-to-order fabrication business to supply key customers in Florida and the Caribbean with hurricane laminated and insulated glass.

Glass Types Covered:

- Float Glass
- Tempered Glass

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Laminated Glass

Heat-Strengthened Glass

Tinted Glass

Other Glass Types

Natures Covered:

Electrochromic

Gasochromic

Photochromic

Other Natures

Coating Types Covered:

Soft Coating

Hard Coating

End Users Covered:

Residential Construction

Commercial Construction

Automotive Industry

Consumer Electronics

Aerospace & Defense

Electronics

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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