

Coated Glass Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-08-13 | 172 pages | EMR Inc.

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Report description:

The global coated glass market, valued at USD 28.35 Billion in 2024, has experienced significant growth, offering increased resistance to scratches and damage, thereby prolonging the product's lifespan. The market is projected to grow at a compound annual growth rate (CAGR) of 12.50% from 2025 to 2034, potentially reaching USD 92.06 Billion by 2034, driven by its role in enhancing energy efficiency and reducing a building's carbon footprint.

Global Coated Glass Market Growth

The growth of the coated glass market is driven by its ability to enhance durability, offering increased resistance to scratches and damage, thereby extending its lifespan. It also improves energy efficiency by regulating temperature and reducing heat transfer. UV-blocking coatings protect interiors and occupants from sun damage, while the coatings enhance aesthetics, providing a modern and sleek appearance for buildings. Some coatings also offer increased privacy by reducing external visibility while maintaining transparency. Guardian Glass introduced SunGuard SNX 70+ coated glass at GlassBuild America in October 2023. Part of the company's triple silver technology, this new product features 68% visible light transmission and a solar heat gain coefficient of 0.28, combining strong thermal performance with aesthetic appeal for commercial buildings.

Glass coatings can control light transmission, reducing glare and improving indoor lighting conditions, thus further increasing opportunities in the coated glass market. By improving energy efficiency, coated glass helps reduce a building's carbon footprint. It is also cost-effective, reducing long-term heating and cooling costs.

Key Trends and Recent Developments

The coated glass market is driven by the increasing need for energy-efficient solutions, sustainability, green building initiatives, the integration of coated glass in solar energy systems, and the growing use of coatings in automotive glass.

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October 2024

Intevac unveiled its TRIO glass coating system at Glasstec, designed to accelerate innovation in consumer electronics. Combining the flexibility of batch coating with the efficiency of inline production, TRIO overcomes traditional system limitations. It enables faster product qualification and scaling, supporting a projected USD 1.4 trillion electronics market by 2032.

October 2023

Vitro inaugurated its Coater 8 architectural glass coating oven in Mexicali, Mexico, with a USD 60 million investment. The oven increases production capacity by over 6 million square meters of coated glass featuring Solarban nanotechnology. This move strengthens Vitro's commitment to eco-efficient products and sustainability.

July 2023

HeatCure, a transparent coating, was launched to control solar heat gain through window glass by 4 to 10 degrees Celsius, thereby reducing electricity consumption. The product supports sustainable building initiatives by improving energy efficiency, contributing to reduced environmental impact and enhanced energy performance in buildings.

August 2021

Sisecam launched its Solar Control Low-E Glass Neutral 50/33, designed to provide optimum light transmittance and efficient solar and heat control. This product reduces heat loss by 50% compared to ordinary IGU, lowers solar energy transmission by 45%, and offers over 70% UV protection, contributing to energy efficiency and reduced heating costs.

Growing Demand for Energy-Efficient Solutions are Boosting the Coated Glass Market Opportunities

The rising emphasis on energy conservation has spurred demand for coated glass, which enhances thermal insulation and reduces heating and cooling expenses. Coated glass plays a pivotal role in helping buildings comply with stringent energy efficiency standards, making it a preferred choice for both residential and commercial projects. This trend is being further fuelled by global sustainability efforts. In April 2024, Bluebird Solar introduced its 600 Wp TOPCon dual-glass bifacial solar panels at RenewX 2024 in Hyderabad, offering 23.25% sunlight-to-power conversion, improved durability, and high efficiency, ideal for various environmental conditions.

Sustainability and Green Building Initiatives are Influencing the Coated Glass Market Dynamics and Trends

With an increased focus on sustainability, the demand for coated glass in green building projects has surged. Coated glass contributes to better energy performance, reducing the carbon footprint of buildings. Government regulations favouring eco-friendly construction have further amplified its importance. In July 2024, Chinachem Group, in collaboration with the Nano and Advanced Materials Institute (NAMI), introduced a sustainable protective window coating. This peelable nano-scale coating will be applied to windows in 2,300 residential units, helping to reduce construction waste, improve quality, and address the issue of glass damage during construction, thus enhancing buyer satisfaction.

Integration of Coated Glass in Solar Energy Systems is a Growing Trend in the Glass Coating Market

The use of coated glass in solar panels and renewable energy systems has significantly increased. Specialised coatings enhance solar panel efficiency by improving light transmission and reducing heat buildup. This trend aligns with the global push towards

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clean energy and sustainability. Linde Gases, a division of The Linde Group, introduced the S-COAT anti-reflection coating in collaboration with LiSEC. This technology improves light transmission by 3%, with peak conditions increasing efficiency by up to 3.5%. The S-COAT process applies a water-based chemical mixture using inert gas spraying, improving the energy yield of solar modules, and supporting environmental sustainability.

Growth in Automotive Glass Coatings is Impacting Glass Coating Market Revenue

Coated glass has become crucial in the automotive industry, enhancing vehicle performance, safety, and comfort. Coatings that provide glare reduction, UV protection, and increased durability are in high demand. As automakers focus on improving fuel efficiency and interior comfort, the use of coated glass is expected to grow, especially with the rise of electric and autonomous vehicles. Hyundai Motor Company's initiative in June 2024 in Pakistan involved applying Nano Coating Film to vehicles, which reduced cabin temperature by up to 10.98C compared to traditional window tints. This innovation is planned for expansion in India, contributing to the growing demand for automotive glass coatings.

Global Coated Glass Market Trends

Coated glass provides anti-reflective properties that enhance visibility and clarity. Certain coatings incorporate self-cleaning technology, which reduces maintenance time and costs, positively impacting the coated glass market revenue. Anti-fog coatings prevent condensation, ensuring clear visibility in diverse environments. Coated glass is versatile, used in windows, mirrors, solar panels, automotive glass, and electronics. Moreover, these coatings improve glass shatter resistance, offering added safety. In February 2024, Vitro Architectural Glass introduced Sungate ThermL glass, a low-emissivity coating that enhances thermal performance in insulating glass units (IGUs). When paired with Solarban 70 or 60 glass, it improves U-values by up to 21%, while maintaining clarity, high light transmittance, and durability, ensuring superior insulation.

Coated glass can be tailored with various tints, patterns, or finishes to suit specific design requirements. The coated glass market is experiencing growth driven by the rising demand for sustainable construction and energy-efficient buildings. Ongoing technological advancements in coatings are further enhancing their performance and functionality.

Global Coated Glass Industry Segmentation

The EMR's report titled "Global Coated Glass Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Function

- Safety and Security
- Solar Control
- Optics and Lightening
- Fire Rated
- Others

Market Breakup by Production Process

- Hard Coat
- Soft Coat

Market Breakup by Product

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- Low E-Glass
- Heat Reflective

Market Breakup by Applications

- Architectural
- Electronics
- Automotive
- Optical
- Aerospace and Defence
- Sports and Leisure
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Coated Glass Market Share

According to the coated glass market analysis, the automotive sector is significantly benefiting from the use of coated glass, which provides improved durability, UV protection, and thermal regulation, enhancing both comfort and safety. Coatings reduce glare and regulate temperature, helping to improve fuel efficiency and offering increased privacy. Moreover, coatings with self-cleaning and anti-fog properties are lowering maintenance costs and improving visibility. Racing Optics announced in December 2024 the launch of its Windshield Defense system for the Ford Bronco, Mercedes-Benz G-Wagon, and INEOS Grenadier, following the success of similar products for Jeep models. The system is designed to withstand extreme conditions, providing reliable protection for windshields while maintaining crystal-clear clarity.

The growth of the coated glass market is further supported by its use in aerospace and defence, where coated glass offers crucial benefits such as enhanced safety, durability, and lightweight performance. The coatings improve thermal insulation, reduce glare, and ensure better visibility across various environmental conditions. Additionally, anti-reflective and anti-UV coatings protect against harmful radiation and extreme temperatures, which is vital for maintaining the performance and longevity of essential equipment. In October 2023, LightPath Technologies received Phase 2 funding from the U.S. Department of Defense through the Defense Logistics Agency to support the qualification of its Black Diamond chalcogenide glasses as substitutes for germanium. The company had already successfully completed Phase 1 qualification in July 2023, replacing germanium in several defence applications.

Competitive Landscape

The coated glass market key players operate across various industries, including architecture, automotive, electronics, and solar energy. These companies are recognised for their innovation in glass products, particularly those that focus on energy efficiency, sustainability, and advanced technologies. Their glass solutions are extensively used in the construction of energy-efficient buildings, automotive windows, and electronic display panels.

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AGC Inc.

AGC Inc., established in 1907 and headquartered in Tokyo, Japan, is a leading global supplier of glass, chemicals, and ceramics. The company specialises in a variety of sectors including architectural, automotive, and display glass. AGC is renowned for its innovation in glass products, particularly in energy-efficient and environmentally friendly solutions.

Euroglas GmbH

Euroglas GmbH, founded in 1995 and headquartered in Mainz, Germany, is a prominent manufacturer of float glass. The company focuses on producing high-quality glass for architectural, automotive, and industrial applications. Euroglas is a key player in Europe, known for its cutting-edge technology and commitment to sustainable production processes.

Nippon Sheet Glass Co., Ltd

Founded in 1918 and headquartered in Tokyo, Japan, Nippon Sheet Glass Co., Ltd (NSG Group) is a leading global glass manufacturer. The company specialises in the production of automotive, architectural, and technical glass products. NSG Group is renowned for its innovation and commitment to providing sustainable, high-performance glass solutions worldwide.

Central Glass Co. Ltd.

Central Glass Co. Ltd., established in 1936 and headquartered in Tokyo, Japan, is a key player in the global glass and chemical industries. The company produces a range of products, including architectural and automotive glass, as well as advanced materials for the electronics and energy sectors, with a focus on sustainability.

Other key players in the coated glass market report are Saint-Gobain S.A., SGO (EPA), Fuyao Glass Industry Group Co., Ltd., and Guardian Industries, among others.

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