

Laminated Glass Market by Glass Type (Heat-strengthened, Tempered, Triple, Reflective, Others), End-use Industry (Automotive, Electronics, Building & Construction, Energy, Other End-use Industries), and Region - Global Forecast to 2030

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Report description:

The laminated glass market is anticipated to expand from USD 31.68 billion in 2024 to USD 54.50 billion by 2030, reflecting a compound annual growth rate (CAGR) of 9.5% over the forecast period.

<https://mnimimg.marketsandmarkets.com/Images/laminated-glass-market-overview.webp>

Among the various applications, the Solar/BIPV Modules segment represents the fastest-growing sector for laminated glass, propelled by the adoption of renewable energy, architectural advancements, and sustainability initiatives. Laminated glass plays a crucial role in this field by providing both structural integrity and functional integration for photovoltaic cells, thereby making it the preferred choice for solar panels, facades, skylights, and other energy-generating architectural elements. A significant factor driving this growth is the global movement towards decarbonization and the development of net-zero buildings, with BIPV modules increasingly replacing traditional building materials such as roofing tiles, curtain walls, and windows. Laminated glass ensures durability and safety while maintaining transparency or semi-transparency, enabling architects and designers to balance aesthetic appeal with functional requirements. The rising demand is further supported by urbanization and the development of smart city projects, as BIPV modules offer dual benefits: generating renewable energy and improving energy efficiency in building infrastructures. Government incentives for solar energy implementation, stricter building regulations, and rising energy costs have enhanced the economic viability of BIPV solutions. Laminated glass is renowned for its impact resistance, weather resistance, and UV deterioration protection, ensuring long-term performance and safeguarding photovoltaic cells, which ultimately reduces

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maintenance costs and prolongs system lifespan.

"In terms of value, ionoplast polymer, by Interlayer type, is projected to be the fastest-growing segment of the overall laminated glass market."

Ionoplast polymer by interlayer type is the fastest-growing segment in the laminated glass market in terms of value because it offers performance that exceeds traditional materials like PVB. This enables high-end applications that can command premium prices. With stiffness reported to be up to 100 times greater and toughness about five times higher than PVB, ionoplast laminates act as true structural elements rather than just safety glass. This allows architects and engineers to create thinner, lighter, and larger glass panels for facades, balustrades, skylights, and overhead glazing without needing bulky frames, leading to system-level cost savings, though with a higher price per square meter. Their excellent edge stability and resistance to moisture reduce the risk of delamination and yellowing, ensuring long-lasting optical clarity, which is important for upscale projects. Notably, ionoplast maintains its load-bearing capacity after breaking even at high temperatures, offering a significant safety advantage in warm climates or safety-critical settings where PVB weakens. Additionally, ionoplast films are typically available in specific thicknesses such as 0.89 mm and 1.52 mm, and feature a very low yellowness index, further confirming their suitability for high-end architectural and structural glass.

"In terms of value, triple laminated, by glass type is projected to be the fastest-growing segment in the overall laminated glass market."

Triple-laminated glass is the fastest-growing segment based on value, driven by its ability to meet the increasing demand for enhanced safety, durability, and multifunctionality in modern infrastructure and specialized applications. Unlike standard double laminates, triple laminates feature three layers of glass bonded with two interlayers, creating a much stronger and more durable structure. This configuration offers outstanding impact resistance, making it the top choice for environments that face tough conditions such as blasts, ballistic threats, hurricanes, or earthquakes. For instance, it is frequently used in defense, embassies, high-security facilities, and critical public infrastructure like airports and government buildings, where safety and security are priorities. Besides security benefits, triple laminated glass also provides better acoustic insulation and thermal performance, meeting the rising demand for energy-efficient and soundproof spaces in high-rise offices, luxury homes, and urban developments. The additional layer enables the integration of advanced features such as switchable privacy films, solar control coatings, or photovoltaic cells, further adding to its value. Although manufacturing triple laminates involves higher costs due to the thicker glass, extra interlayers, and more complex autoclave processes, customers are willing to pay the premium because it reduces long-term risks, maintenance needs, and liability issues.

"During the forecast period, the laminated glass market in the electronics end-use industry is projected to be the fastest-growing." The electronics industry is emerging as the fastest-growing end-use market for laminated glass in terms of value, owing to the confluence of advanced display technologies, and consumer and industrial device durability requirements. Unlike the construction or automotive industry, the electronics end-use sector demands laminated glass that not only provides strength and safety but also optical clarity, scratch resistance, and functional integration with sensors, touch systems, and flexible components.

Smartphones, tablets, laptops, smartwatches, and AR/VR headsets are increasingly utilizing laminated glass to safeguard sensitive displays while maintaining high brightness and color accuracy. In the luxury consumer electronics segment, laminated glass facilitates edge-to-edge designs, ultra-thin profiles, and smooth touch response, all of which directly augment product value. Beyond consumer devices, laminated glass is gaining popularity within industrial electronics, medical equipment, and automotive screens, where resistance to impacts, temperature variations, and environmental factors is crucial. The incorporation of ionoplast or chemically strengthened layers within laminates ensures long-lasting durability against drops, bending, or frequent usage, thereby reducing warranty claims and fostering customer confidence. Furthermore, laminated glass can embed functional films such as anti-glare, anti-reflective, UV-blocking, or photovoltaic coatings, transforming displays into multifunctional components.

"During the forecast period, the laminated glass market in North America is projected to be the largest."

North America is anticipated to be the leading regional market for laminated glass, primarily owing to its robust industrial foundation, rigorous regulatory environment, and advanced utilization of high-value applications. The construction industry plays a pivotal role, as laminated glass is increasingly mandated in commercial towers, airports, educational institutions, and residential developments to comply with stringent building regulations pertaining to safety, fire protection, and hurricane impact resistance, particularly in coastal regions such as Florida and the Gulf Coast. The growth of green-certified and energy-efficient buildings has further amplified the use of laminated glass with solar control coatings and sound insulation features, in accordance with LEED and other sustainability standards. In the automotive sector, North America benefits from both high vehicle ownership rates and strict regulatory oversight by agencies such as the National Highway Traffic Safety Administration (NHTSA), which emphasize crash safety and occupant protection. Beyond conventional windshields, laminated glass is being employed for side windows, panoramic roofs, and advanced head-up display (HUD) windshields, reflecting consumer preferences for safety, comfort, and premium design. North America also demonstrates excellence in technological advancements, with laminated glass being increasingly integrated into electronics, smart glass, and building-integrated photovoltaics (BIPV). The demand from aerospace and defense sectors, where laminated glass is utilized in cockpits, canopies, and blast-resistant glazing, further enhances the market value. Additionally, the presence of major laminated glass manufacturers, research & development centers, and processing facilities in the United States and Canada ensures a resilient supply capability and efficient commercialization of new interlayers, coatings, and functional laminates.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type - Tier 1- 45%, Tier 2- 35%, and Tier 3- 20%

By Designation - Managers- 50%, Directors- 30% and Others ? 20%

By Region - North America- 40%, Europe- 35%, Asia Pacific- 20%, RoW- 5%

The report provides a comprehensive analysis of company profiles:

Prominent companies include TAIWAN GLASS IND. CORP. (Taiwan), CSG HOLDING CO., LTD. (China), Fuyao Group (China), Nippon Sheet Glass Co., Ltd. (Japan), Saint-Gobain (France), Sisecam (Turkey), Central Glass Co., Ltd. (Japan), AGC Inc. (Japan), Trulite (Georgia), SCHOTT (Germany), Vitro (Mexico), and others.

Research Coverage

This research report categorizes the laminated glass market by interlayer type (polyvinyl butyral, ethyl-vinyl acetate, ionoplast polymer, thermoplastic polyurethane, other interlayer types), glass type (heat-strengthened, tempered, triple, reflective, other glass types), application (windows, doors, and facades; automotive shields; railway & marine glazing; solar/BIPV modules; electronics & smart devices; security & defense glazing), end-use industry (automotive, electronics, building & construction, energy, other end-use industries), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and South America). The scope of the report covers detailed information about the main factors influencing the growth of the laminated glass market, such as drivers, restraints, challenges, and opportunities. A thorough analysis of key industry players has been performed to provide insights into their business overview, solutions, services, key strategies, contracts, partnerships, and agreements. The report also discusses service launches, mergers and acquisitions, and recent developments in the laminated glass market. Additionally, it includes a competitive analysis of upcoming startups within the laminated glass market ecosystem.

Reasons to buy this report:

The report will assist market leaders and new entrants by providing approximate revenue figures for the overall laminated glass market and its subsegments. It will help stakeholders understand the competitive landscape and gather insights to better position their businesses and develop effective go-to-market strategies. Additionally, the report offers stakeholders an understanding of the market's current dynamics and key information on drivers, restraints, challenges, and opportunities.

The report provides insights on the following:

Analysis of key drivers (rising adoption of laminated glass in construction for safety and energy efficiency), restraints

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(capital-intensive production processes), opportunities (push for sustainable and green-certified buildings), and challenges (high emission in glass production)

? Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and service launches in the laminated glass market

? Market Development: Comprehensive information about lucrative markets ? the report analyzes the laminated glass market across varied regions

? Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the laminated glass market

? Competitive Assessment: In-depth assessment of market share, growth strategies, and service offerings of leading players like TAIWAN GLASS IND. CORP. (Taiwan), CSG HOLDING CO., LTD. (China), Fuyao Group (China), Nippon Sheet Glass Co., Ltd (Japan), Saint-Gobain (France), Sisecam (Turkey), Central Glass Co., Ltd. (Japan), AGC Inc. (Japan), Trulite (Georgia), SCHOTT (Germany), Vitro (Mexico), among others in the laminated glass market.

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