

Crown Glass Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Market Report | 2025-05-06 | 220 pages | Global Market Insights

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Report description:

The Global Crown Glass Market was valued at USD 2.7 billion in 2024 and is estimated to grow at a CAGR of 18.5% to reach USD 16.6 billion by 2034, fueled by rising consumer demand in the eyewear and optical sectors for durable lenses, scratch resistance, and UV/blue light protection. Additionally, crown glass is gaining popularity in the luxury construction market, where its handcrafted aesthetic appeals to real estate developers, architects, and interior designers looking for distinctive materials. Unlike mass-produced float glass, crown glass offers a unique, artisanal look that is valued in upscale residential and commercial projects.

Technological advancements in crown glass manufacturing enable the material to be used in a broader range of applications, especially in modern construction. Traditional crown glass, once associated exclusively with historic restorations, can now be integrated with advanced coatings such as energy-efficient and UV-protective layers. This makes it suitable for contemporary buildings, offering aesthetic charm and functional benefits. These modern coatings not only enhance crown glass's durability but also improve its ability to meet the performance demands of architectural designs, allowing it to appeal to a wider range of construction projects while retaining its vintage look. This combination of heritage and modernity is a key factor in the material's growing popularity in custom windows, doors, and decorative elements.

Borosilicate crown glass (BK) segment held 39% share in 2024, due to its exceptional heat resistance and low thermal expansion properties. These attributes make it the ideal material for high-performance applications, such as scientific instruments, optical devices, and laboratory glassware. The demand for Borosilicate crown glass is strong in optics and photonics, with its use in precision lenses, laser systems, and other high-tech optical equipment continuing to rise. Its superior strength and transparency make it a top choice for imaging technologies, further expanding its scope in scientific and industrial sectors.

Based on market segmentation, the precision-grade crown glass segment held a 45.5% share in 2024. This grade of crown glass is essential for high-precision industries such as aerospace, defense, and medical optics, where the need for optical clarity, minimal tolerances, and consistent quality is paramount. With the growing demand for cutting-edge technologies, such as autonomous systems and advanced imaging devices, the market for precision-grade crown glass is expected to continue to expand. As these sectors evolve, the need for this high-performance material, capable of meeting rigorous technical requirements, is projected to

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rise significantly.

U.S. Crown Glass Market held 85% share and was valued at USD 272.1 million in 2024, driven by the restoration and preservation of historic buildings, which require authentic, traditional materials like crown glass. Government incentives and tax credits for heritage building rehabilitation also support this trend. Additionally, the growing demand for luxury real estate, often favored by architects and designers for its aesthetic qualities, further bolsters crown glass usage. The rise of specialty manufacturers and custom residential projects has also played a key role in expanding the market in the U.S.

Key companies in the Global Crown Glass Market, including Edmund Optics Inc., SCHOTT AG, HOYA Corporation, Ohara Inc., and Sumita Optical Glass Inc., focus on product innovation and expanding their production capabilities to maintain their market position. These companies invest heavily in research and development to enhance the optical properties of crown glass and introduce new applications across various industries. Additionally, partnerships and collaborations with manufacturers in the eyewear, construction, and optics sectors help them meet the increasing demand for customized, high-performance crown glass solutions.

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