

Electrochromic Glass and Devices Market by Material (Polymers, Nanocrystals, Violegens), Device (Windows, Mirror, Display, Application (Commercial, Residential, Transportation, Retail, Hospitality), and Geography - Global Forecast to 2020

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Abstracts

Electrochromic glass is a kind of glass which changes its light transmission properties according to the electrical stimulus provided. This report covers smart glass materials such as transition metal oxides (TMOs), polymers, reflective hydrides, nanocrystals, and violegens. With its unique properties such as durability and fast switching times, the electrochromic smart glass is expected to revolutionize the architecture application, which is expected to contribute the major chunk of the market revenue by 2020.

The transportation sector is another growth market for this product. In the automotive segment, electrochromic glass is becoming a popular choice for rear view mirrors and sunroofs as it has the property of controlling the glare, tinting, and so on. Reputed automobile players such as Daimler AG (Germany) and BMW AG (Germany) use electrochromic glass for windows and sunroofs in their premium cars such as Mercedes-Benz SLK and BMW Active Tourer, respectively. Boeing Company (U.S.), one of the key players in the aviation industry, also uses electrochromic glass windows in its 787 Dreamliner aircraft.

The report covers the electrochromic glass market on the basis of materials, products, applications, and geography. The segmentation on the basis of commercial architectural applications included in the report covers educational buildings, corporate buildings, hospitals & lab facilities, and retail applications of smart glass. The automotive segment takes into account smart glass products such as windows, doors, windshields, and rear view mirrors.

The report provides a detailed analysis of the present market scenario and its projection till 2020. It also captures the market roadmap with market size estimates, market share forecasts, value chain, competitive landscape, profiles of leading market players, and their key developments and strategies. The geographical segmentation section analyzes the smart glass market in the regions of North America, Europe, APAC, and RoW. Besides the segmentation, this report analyzes the major driving factors for the electrochromic glass market such as the encouraging government legislations and policies, green building initiatives, and so on.

This report also profiles key industry players in the smart glass market, and provides detailed analysis of their strategies and developments. The key players in this industry include SAGE Electrochromics, Inc. (U.S.), ChromoGenics AB (Sweden), RavenBrick LLC (U.S.), Asahi Glass Company (Japan), Gentex Corporation (U.S.), EControl-Glas (Germany), Magna Glass & Window, Inc. (U.S.), Guardian Industries (U.S.), PPG Industries (U.S.), and View, Inc. (U.S.).

Market, by Material:

The market by material includes transition metal oxides (TMO), polymers, reflective hydrides, nanocrystals, and violegens.

Market, by Product:

The market by product includes electrochromic windows, mirrors, displays, and others.

Market, by Application:

The market by application includes commercial, residential, transportation, and other applications. The commercial applications covered in this report are educational, corporate, and healthcare & lab facilities. The transportation facilities include bus and rail, aerospace, marine, and automotive.

Market, by Geography:

The market by geography is segmented into the North America, Europe, APAC, and rest of the world.

The report also includes market dynamics such as drivers, restraints, and opportunities.

Apart from the market segmentation, the report also includes critical market data and qualitative information for each product type, along with quantitative analysis, such as the Porter's Five Forces analysis and the value chain analysis.

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