

Smart Glass Market Report by Technology (Thermochromic, Photochromic, Electrochromic, Suspended Particle Device (SPD), Polymer Disperse Liquid Crystal (PDLC), and Others), Control Mode (Dimmers, Switches, Remote Control, and Others), Application (Architectural, Transportation, Consumer Electronics, Power Generation), and Region 2024-2032

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Report description:

The global smart glass market size reached US\$ 6.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 14.8 Billion by 2032, exhibiting a growth rate (CAGR) of 9.9% during 2024-2032.

Smart glass is a superior-grade glazing glass that is manufactured by arranging and laminating switchable acrylic polycarbonate films. These layers include liquid crystals that filter the level of brightness, heat, and voltage entering through lenses. Smart glass provides instant privacy and enough natural light, prevents ultraviolet (UV) radiations, reduces glare, allows easy cleaning, and enhances the aesthetic appearance of the infrastructure. Along with this, it is secured, easy to install, aesthetically appealing, and requires minimal operational costs; therefore, it is used as electrochromic and envelope glass across various power generation and commercial buildings. Currently, smart glass is available in varying technologies, including thermochromic, photochromic, and suspended particle devices (SPD).

Smart Glass Market Trends:

One of the key factors driving the market growth is the ongoing construction activities and the increasing infrastructural projects, which, in turn, have facilitated the widespread installation of smart glass in various residential and commercial complexes. Such products exhibit energy-saving capacity, which further helps reduce the energy consumption on heating, ventilation, and air conditioning (HVAC) systems. In line with this, the implementation of various green building initiatives by governments, owing to

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the rising environmental concerns, has further supplemented the product demand to reduce overall carbon footprints. Additionally, considerable expansion in the automotive industry and the escalating need for luxurious vehicles have prompted manufacturers to incorporate smart glass in sun visors, sunroofs, windshields, and rear-view mirrors, which is contributing to the market growth. Moreover, the extensive utilization of suspended particle devices (SPD) glass in the aerospace industry to offer improved aircraft performance, acoustic insulation, and superior heat rejection is impelling the market growth. Apart from this, the advent of floor-to-ceiling glass windows and the uptake of three-dimensional (3D) designs prepositions to ensure optimum thermal insulation are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global smart glass market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on technology, control mode and application.

Breakup by Technology:

- Thermochromic
- Photochromic
- Electrochromic
- Suspended Particle Device (SPD)
- Polymer Disperse Liquid Crystal (PDLC)
- Others

Breakup by Control Mode:

- Dimmers
- Switches
- Remote Control
- Others

Breakup by Application:

- Architectural
- Transportation
- Consumer Electronics
- Power Generation

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia

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Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AGC Inc., Asahi India Glass Limited, ChromoGenics AB, Compagnie de Saint-Gobain S.A., Diamond Glass Limited, Gauzy Ltd, Gentex Corporation, Halio Inc., Polytronix Inc., Research Frontiers Inc. and View Inc.

Key Questions Answered in This Report

1. What was the size of the global smart glass market in 2023?
2. What is the expected growth rate of the global smart glass market during 2024-2032?
3. What are the key factors driving the global smart glass market?
4. What has been the impact of COVID-19 on the global smart glass market?
5. What is the breakup of the global smart glass market based on the technology?
6. What is the breakup of the global smart glass market based on the application?
7. What are the key regions in the global smart glass market?
8. Who are the key players/companies in the global smart glass market?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview

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- 4.2 Key Industry Trends
- 5 Global Smart Glass Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Technology
 - 6.1 Thermochromic
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Photochromic
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Electrochromic
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
 - 6.4 Suspended Particle Device (SPD)
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
 - 6.5 Polymer Disperse Liquid Crystal (PDLC)
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
 - 6.6 Others
 - 6.6.1 Market Trends
 - 6.6.2 Market Forecast
- 7 Market Breakup by Control Mode
 - 7.1 Dimmers
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Switches
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Remote Control
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 8 Market Breakup by Application
 - 8.1 Architectural
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Transportation
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3 Consumer Electronics
 - 8.3.1 Market Trends

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- 8.3.2 Market Forecast
- 8.4 Power Generation
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 9 Market Breakup by Region
 - 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
 - 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
 - 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast

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- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast
- 10 SWOT Analysis
 - 10.1 Overview
 - 10.2 Strengths
 - 10.3 Weaknesses
 - 10.4 Opportunities
 - 10.5 Threats
- 11 Value Chain Analysis
- 12 Porters Five Forces Analysis
 - 12.1 Overview
 - 12.2 Bargaining Power of Buyers
 - 12.3 Bargaining Power of Suppliers
 - 12.4 Degree of Competition
 - 12.5 Threat of New Entrants
 - 12.6 Threat of Substitutes
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Market Structure
 - 14.2 Key Players
 - 14.3 Profiles of Key Players
 - 14.3.1 AGC Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis

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- 14.3.2 Asahi India Glass Limited
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
- 14.3.3 ChromoGenics AB
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
- 14.3.4 Compagnie de Saint-Gobain S.A.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
- 14.3.5 Diamond Glass Limited
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
- 14.3.6 Gauzy Ltd
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
- 14.3.7 Gentex Corporation
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
- 14.3.8 Halio Inc.
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Polytronix Inc.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Research Frontiers Inc.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
- 14.3.11 View Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio

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