

Global LOW-E Glass Market Growth 2025-2031

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Abstracts

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The global LOW-E Glass market size is predicted to grow from US\$ 26830 million in 2025 to US\$ 32830 million in 2031; it is expected to grow at a CAGR of 3.4% from 2025 to 2031.

Low emissivity coated glass is also called Low-E glass. Low-E glass is a kind of glass whose surface is coated with low emissivity coating silver and metal-oxide film so that the glass takes on different colors. Its main functions are to reduce the U value of glass, selectively reduce S_c and comprehensively improve energy saving property of glass. Its main features: high infrared reflectivity, ability to directly reflect far infrared thermal radiation, low surface emissivity, weak ability to absorb external energy, hence little reradiated heat energy; wide range of shading coefficient SC , and ability to control sun light transmittance according to needs to cater to requirements of different areas. It can be divided into high transmission low-E glass and sun shading low-E glass.

High transmission Low-E glass: shading coefficient of $SC \geq 0.5$, reducing little transmitted sun light. It is very suitable to be used in the northern area which usually adopts heating system. In winter, sun rays can penetrate this kind of Low-E glass to reach houses. After absorbed by indoor objects, they become far infrared thermal radiation not able to penetrate Low-E glass. Such thermal radiation is confined indoors together with the thermal radiation emitted by indoor heaters, so that heating costs can be reduced.

Sun-shading Low-E glass: shading coefficient of $SC \leq 0.5$, reducing much transmitted sun light. It is very suitable to be used in the southern area which usually uses air-conditioners. In summer, it can to the largest extent prevent sun rays from reaching houses as well as block far infrared thermal radiation from outdoors, so that the costs of air conditioning can be reduced.

According to the layer of silver contained in the film structure, it can also be divided into single-silver Low-E glass, double-silver Low-E glass and three-silver low-E glass. On some occasions, a kind of Low-E product that is high-transmitting and requires very low shading coefficient is needed. Therefore, double-silver Low-E glass came into being. In normal cases, if the shading coefficient is the same, double-silver Low-E glass has higher visible light transmissivity than single-silver Low-E glass. Three-silver Low-E glass with the same shading efficient has even higher visible light transmissivity. Double-silver glass can be used on nearly any occasion. It has the following several characteristics: lower shading coefficient than sun shading Low-E glass, low radiance, heat preservation, low reflectivity, and fine permeability.

Definition of Low-E Insulating Glass and Comparison between it and Common Single Glazing and Common Insulating Glass in Energy-saving

Low-E insulating glass is preferred kind of energy-efficient building materials for energy-saving buildings advocated by the country. It reaches and even far exceeds the national required standards for energy conservation of materials used in public buildings and residential buildings. Relying on vacuum magnetron sputtering method, it, after the surface of common building glass is coated with metallic silver and auxiliary layer, is integrated with another piece of glass through various technology into insulating glass with dry air in the middle. Compared with common energy-saving glass, Low-E insulating glass can, through silver's very high reflectivity of heat radiation, keep more energy from sunlight outdoors in summer while ensuring natural lighting indoors. In winter, it better prevents indoor heat from getting out of room from the glass, so that obvious effects of energy conservation for building can be produced. Compared with common single glazing, energy-saving glass (Low-E insulating glass) can better preserve heat. It can save 67-70% of energy, consuming around 40% less energy compared to common insulating glass (see the table below).

Solar Control Low-E Laminated Glass (Third Generation Low-E Laminated Glass)

Solar control Low-E laminated glass refers to energy-saving laminated glass formed after special Low-E glass manufactured through vacuum magnetron sputtering method are then processed through special lamination technology. Compared with foreign XIR laminated glass, solar control Low-E laminated glass features multiple variety, abundant colors, superior performance, and wide applicable scope. In processing, solar control low-E film is stable in quality.

The major global manufacturers of low radiation Glass are Saint-Gobain, NSG, PPG, AGC, Guardian Industries, Schott and Cardinal Glass.

LP Information, Inc. (LPI) ' newest research report, the “LOW-E Glass Industry Forecast” looks at past sales and reviews total world LOW-E Glass sales in 2024, providing a comprehensive analysis by region and market sector of projected LOW-E Glass sales for 2025 through 2031. With LOW-E Glass sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LOW-E Glass industry.

This Insight Report provides a comprehensive analysis of the global LOW-E Glass landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LOW-E Glass portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LOW-E Glass market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LOW-E Glass and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LOW-E Glass.

This report presents a comprehensive overview, market shares, and growth opportunities of LOW-E Glass market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single LOW-E Glass

Double LOW-E Glass

Triple LOW-E Glass

Segmentation by Application:

Residential

Commercial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Saint-gobain

NSG

PPG

AGC

Guardian Industries

Schott

Cardinal Glass

Padihamglass

CSG Holding

Xinyi Glass

Yaohua Pilkington Glass

Taiwan Glass

Blue Star Glass

Sanxin Glass

Qingdao Jinjing

Kibing Group

Huadong Coating Glass

Zhongli Holding

Key Questions Addressed in this Report

What is the 10-year outlook for the global LOW-E Glass market?

What factors are driving LOW-E Glass market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LOW-E Glass market opportunities vary by end market size?

How does LOW-E Glass break out by Type, by Application?

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