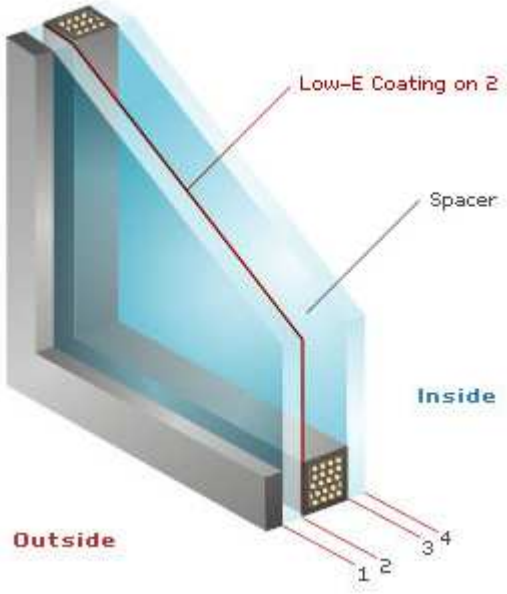
Low Emissivity Energy-Saving Glass

Low-Emissivity Energy-Saving Glass is produced by vacuum sputtering coating equipment. In the process of vacuum sputtering coating, the surface will have a thin-film metal layer combined by metal and electrolyte, which is the so-called coating layer. General energy of sunlight has 51.2% energy in the infrared ray, has 46.8% energy in visible light and has approximately 2% in the ultraviolet and other rays. The metal film of Low-E glass is the most vital point to block the infrared ray and the ultraviolet ray of sunlight. In 380nm-780nm visible light area, the light transmittance is good so it ensures the great lightness.



By blocking the thermal energy from outside, the consuming of air conditioner and the ultraviolet ray transmittance will decrease at the same time. Comparing to clear glass, reflection and absorption are the main points in traditional coating glass and tinted float glass. In other words, the coating layer of Low-E Glass will make the light transparency up to 80%, and its reflection of far infrared ray will be 70-90%.

It can use in curtain walls and skylights of modern green buildings to reach the requirements of high light transparency, low reflection, high heat resistance and energy saving.

Characteristics

1. Close to natural color of glass
2. High transparency in the visible sunlight area, wavelength between 380nm-780nm, so that people will not be uncomfortable because of the reflection
3. Great lightness, natural color, decrease the use of lamp and save energy
4. High reflection rate for the infrared ray, wavelength 780-3000nm, intercepting heat coming in, so that the room can keep cool in summer and warm in winter

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Applications

- Lighting for building exterior: doors, windows, curtain walls and villas
- Industrial products: hospital, airport, roadway, surrounding buildings close to train tracks
- Indoor space: office, meeting room, compartments of house
- Household furniture: freezer

Specification

Thickness(mm)	Maximum Size(mm)	Minimum Size(mm)	Transparency
12 - 60	2100 x 3600	100 x 100	10% - 55%

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