

# 10MM Low E Tempered Glass--Safety Glass for Low E Tempered Insulated Glass and Low E Laminated Glass Tempered

Solar control on line coating [Low E glass](#) can be applied for glass curtain wall, glass facade, they can be used the single panel. But the most effective energy saving solution is working with Low E insulated glass and Low E laminated glass. Both of On Line Low-E coatings and Off Line Low E coatings have been developed to minimize the amount of ultraviolet and infrared light that can pass through glass without compromising the amount of visible light that is transmitted.

In section hard coating 10mm Low E Glass has been cut into slices, and delivered into tempering furnace. They are 5 times toughness than 10mm Low E annealed glass, also as ranked as 10mm Low E toughened glass safety glass.

## Specification:

- 1.Glass Product: 10mm hard coating Low E Glass
- 2.Low E coating treatment: on line coating/ hard coating
- 3.Processing capacity: can be tempered, laminated, insulated, etc.
- 4.Size & shape: bespoke size, flat and curved are available.
- 5.Stock size: 2140mm\*3300mm, etc.
- 6.Low emissivity glass (or low-e glass) has a microscopically thin and transparent coating.



**Shenzhen Sun Global Glass Co., Limited can produce bespoke different value to meet the projects' demand. 10mm Low-E Hard Coating Glass' Performance Measures, the followings are used to measure the effectiveness of insulated glass (DGU/ IGU) with low-e coatings.**

1. U-Value is the rating given to a window based on how much heat loss it allows.
2. Visible Light Transmittance is a measure of how much light passes through a window.
3. Solar Heat Gain Coefficient is the fraction of incident solar radiation admitted through a window, both directly transmitted and absorbed & re-radiated inward. The lower a window's solar heat gain coefficient, the less solar heat it transmits.
4. Light to Solar Gain is the ratio between the window's Solar Heat Gain Coefficient (SHGC) and its visible light transmittance (VLT) rating.

### **The Low E Glass' Coating Location**

In a standard double panel IGU (Low E Insulated Glass Unit) or Sandwich Glass (Low E Toughened Laminated Glass), there are four potential surfaces to which coatings can be applied: the first (#1) surface faces outdoors, the second (#2) and third (#3) surfaces face each other inside the insulating glass unit and are separated by a peripheral spacer which creates an insulating air space, while the fourth (#4) surface faces directly indoors. The Low-W coatings function best when on the third or fourth surface (furthest away from the sun), while solar control low-e coatings function best when on the lite closest to the sun, typically the second surface.

When you are thinking of the design of [Low E Tempered Glass Window](#), [Low E insulated glass facade](#), Low E tempered laminated glass curtain walls, you ought to take these factors into consider, e.g. : size, tint and other aesthetic qualities, etc.