Energy Saving 6mm Low Emissivity Glass Supplier in China

About Low-e Glass

Low emissivity(Low E) is a quality of a surface that radiates, or emits, low levels of radiant energy. All materials absorb, reflect and emit radiant energy. The “Emissivity” refers to the ability of the glass surface to reflect heat. Low-E glass has a thin metallic coating on the glass that reflects thermal radiation or inhibits its emission reducing heat transfer through the glass. Low E glass reflects the radiation rather than absorbing it, improving performance, resulting in a lower U-value. The lower U-value, the better performance will be. It is used on glass in both double and triple-glazed units. The properties of Low-E insulating glazing enable it to be a net contributor of energy in buildings.

6mm Low emissivity glass Characteristic

• Transmits solar energy to help keep homes cooler in the summer and reduce cooling energy costs

• Allows high level of visible light transmittance and exterior clear glass appearance

• Insulates much better than standard clear insulating glass

• Blocks a lot UV energy, a common contributor to fabrics, carpet and furniture fading

• Very low shading coefficient, effective in reducing solar heat radiation from reaching the building interior, especially for infrared heat radiation.

6mm Low-e coating Glass Specification

Single Low-E Glass
Double Low-E Glass
Online coated low e glass(hard coating)
Offline coated low e glass(soft coating)
·Online Low e Color: Clear
·Offline Low e Color: Clear, gray, blue, green, color can be customized
·Size: 2140*3300mm, 2250*3300mm, 2140*1650mm, 2440*1650mm, etc.

Notes on low E Glass Design and Glazing

·Low-E glass cannot be used as a single glazing and must be sealed or processed into insulating glass unit within a very short time as the metallic oxide coating is prone to undesirable reactions once exposed to air.

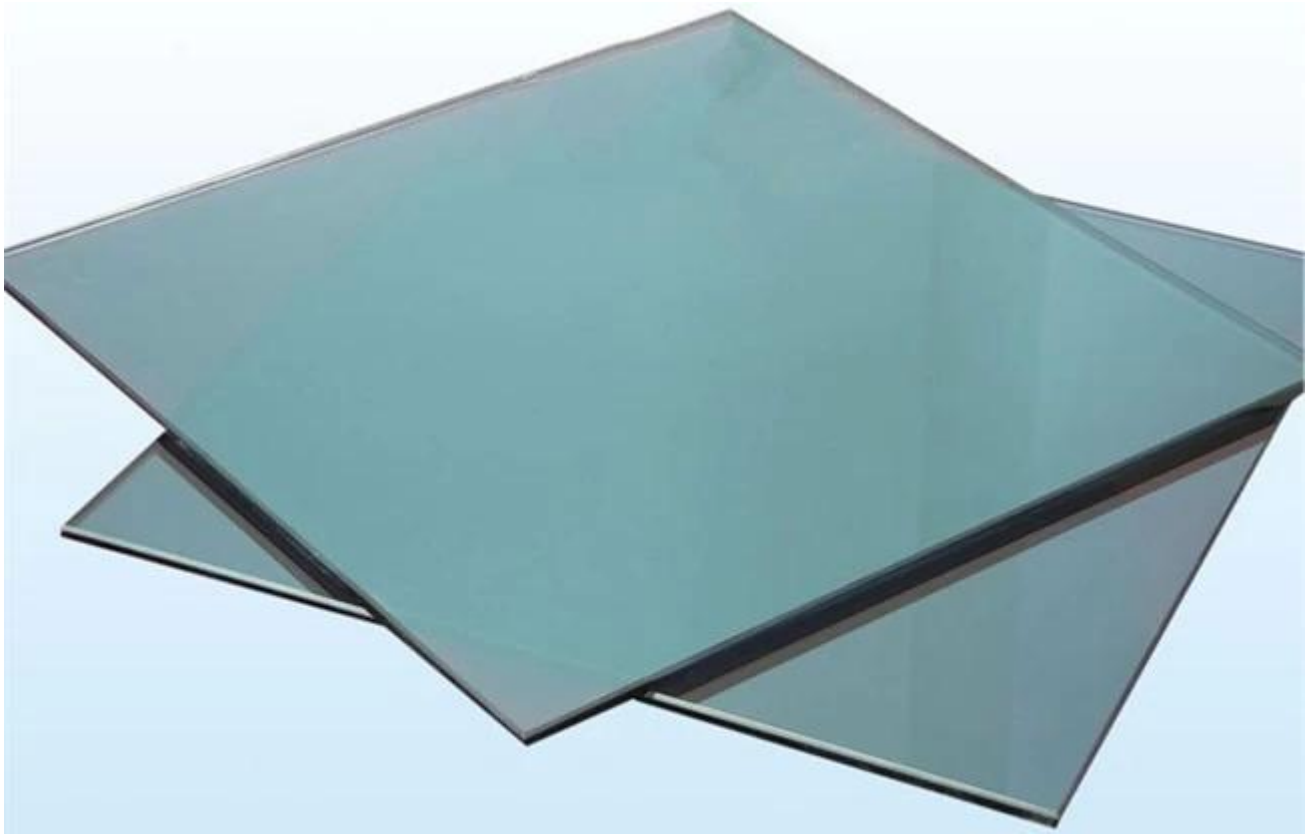
·Emissivity of Low-E insulating glass is 0.02 ~ 0.11, while that of uncoated glass is 0.84.

· In tropical or subtropical areas, the Low-E coating should be positioned on #2 surface (facing inward from outside the building), while positioned on #3 surface in temperate areas.

·JIMY Group developing processable Low-E glass which can be tempered after coating.

·Low-E glass designed for laminated glass unit will be under a greater U-value and poorer thermal insulating capability.

Low E glass picture:



Low E glass performance data sheet

Structure		Light Properties		Thermal Properties			U Value
Single Glazing	Thickness	LT (%)	LR (%)	EA (%)	SHGC (%)	SC	$W/M^2 \cdot K$
Low-e	4mm	82	11	20	71	0.83	3.6
	5mm	81	12	21	71	0.83	3.6
	6mm	80	12	22	71	0.82	3.6
	8mm	80	11	25	67	0.79	3.6
	10mm	79	11	28	67	0.79	3.6

Energy Saving Low Emissivity Glass application:

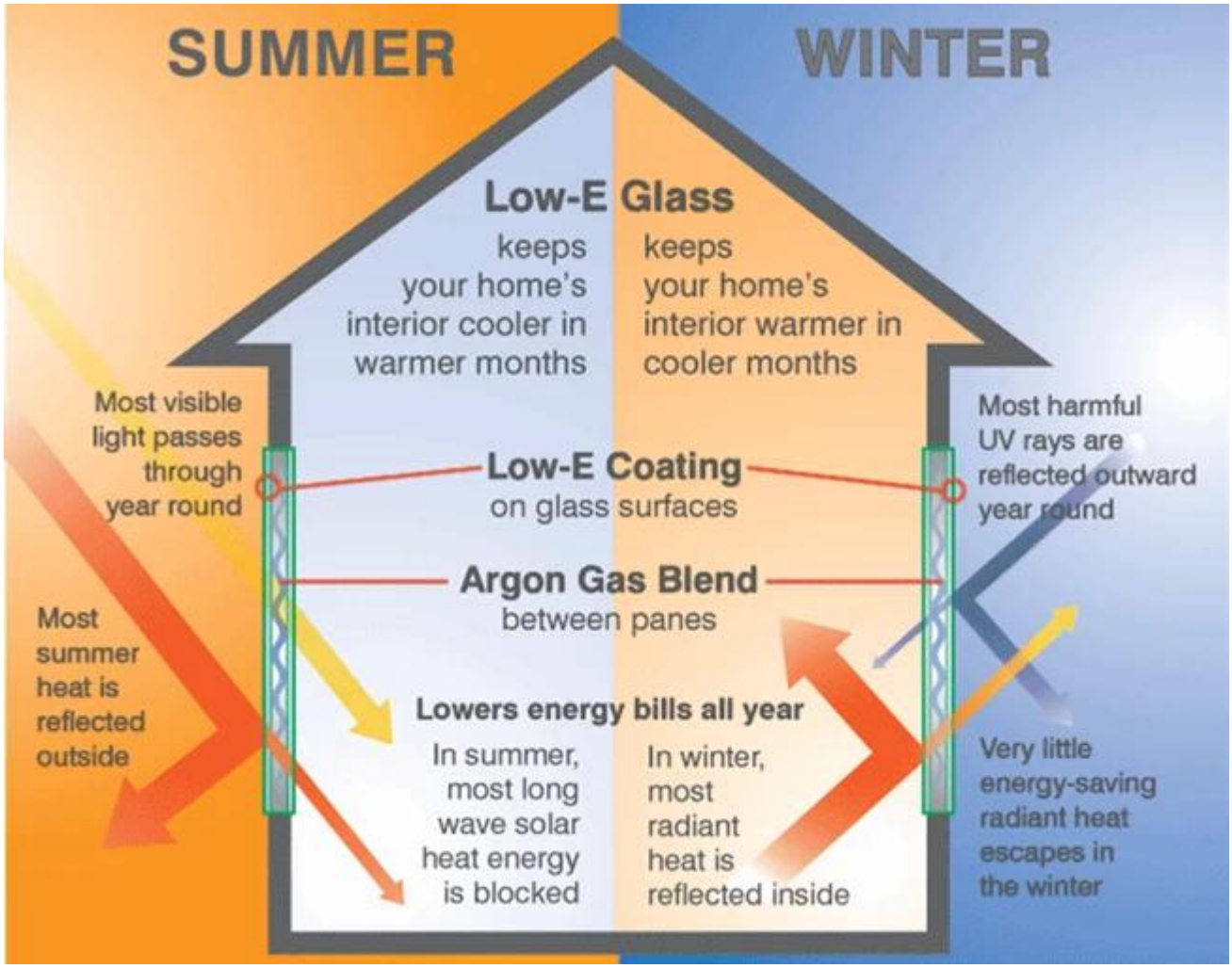
Low-E glass because of the achieve the effect of cooling in Summer and warm in Winter, with excellent insulation, thermal insulation performance results been used on architectural applications, Low-E glass is one kind of the coated glass, reduce the heat transfer caused by the difference between indoor and outdoor temperature.

1. Low-E glass always used on glass curtain wall or glass facade or, widely in high, medium and low latitudes area, can block external heat into the indoor function in the Summer.

2. Low-E glass use on building windows and doors, is greatly reduce the radiation caused by the indoor heat transfer to the outside, to achieve the desired energy-saving effect.

3. Low-E glass can process to low e laminated glass and low e insulated glass, widely use in modern building construction.

How Low-E Low-emissivity Glass Works:



Low E Glass Safety Packing & Loading:


SEGU 2047768
22G1
MGW
Tare
Payload
Seaco
SRL