

# 6 Low Emissivity

## Low-e

Low emissivity(Low E) is a property of radiates, which is the ability of a material to emit thermal radiation. The term "Emissivity" refers to the ratio of the energy radiated by a surface to the energy radiated by a blackbody at the same temperature. Low-E coatings are designed to have a low emissivity, which means they reflect more infrared radiation and absorb less. This is particularly useful in applications where heat retention is important, such as in energy-efficient windows. Low E coatings are typically applied to the inner surface of the glass in double-pane windows. They consist of a thin layer of metal or metal oxide. The most common type is silver, which has a very low emissivity. Other types include tin oxide and zinc oxide. The Low E coating is applied to the inner surface of the glass in double-pane windows. It consists of a thin layer of metal or metal oxide. The most common type is silver, which has a very low emissivity. Other types include tin oxide and zinc oxide.

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Single Low-E

Low-E

Online low e

Offline low e

Low e

Low e

2140 \* 3300, 2250 \* 3300, 2140 \* 1650, 2440 \* 1650

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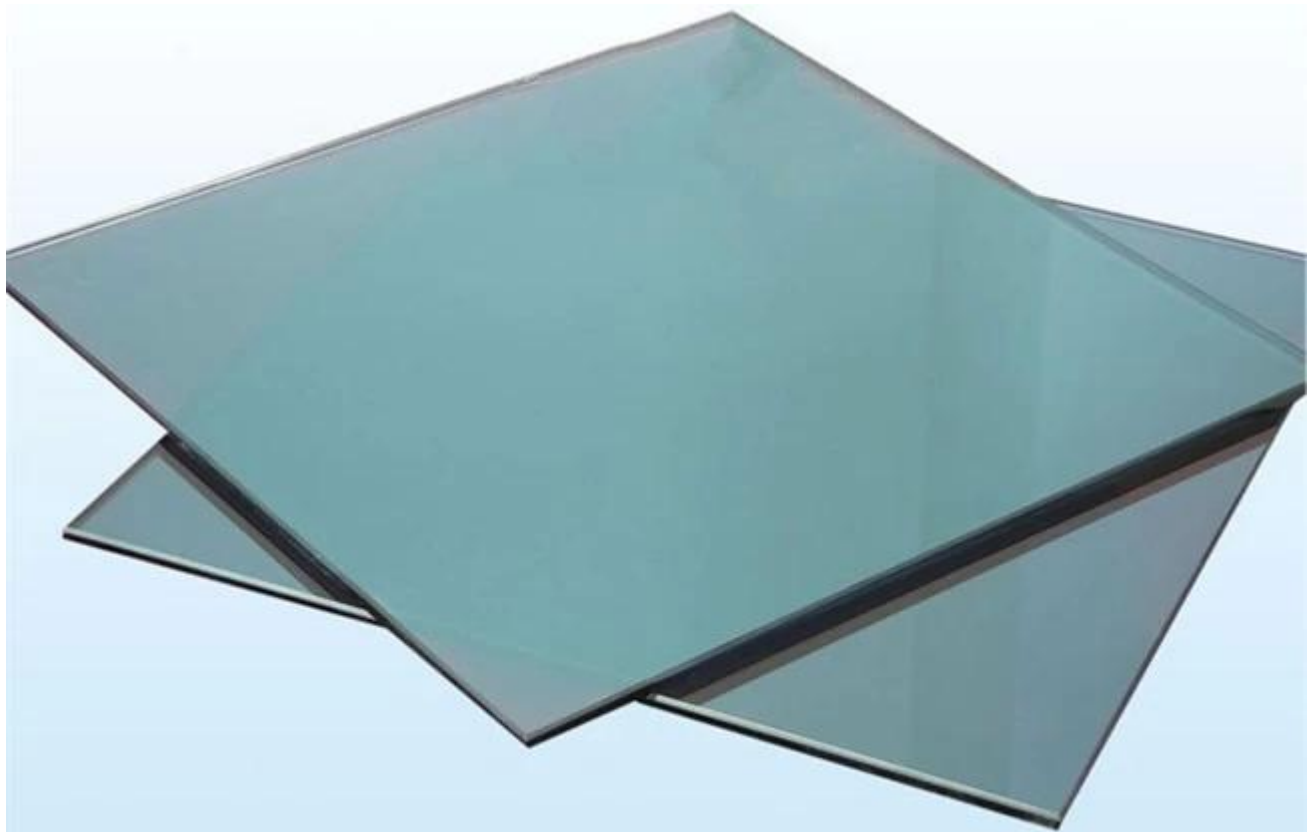
Emissivity Low-E is 0.02 ~ 0.11, 0.84 uncoated

Low-E #2, #3

JIMY processable Low-E

Low-E U-value

**Low E**



**Low E**

Structure		Light Properties		Thermal Properties			U Value
Single Glazing	Thickness	LT (%)	LR (%)	EA (%)	SHGC (%)	SC	W/M <sup>2</sup> ·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

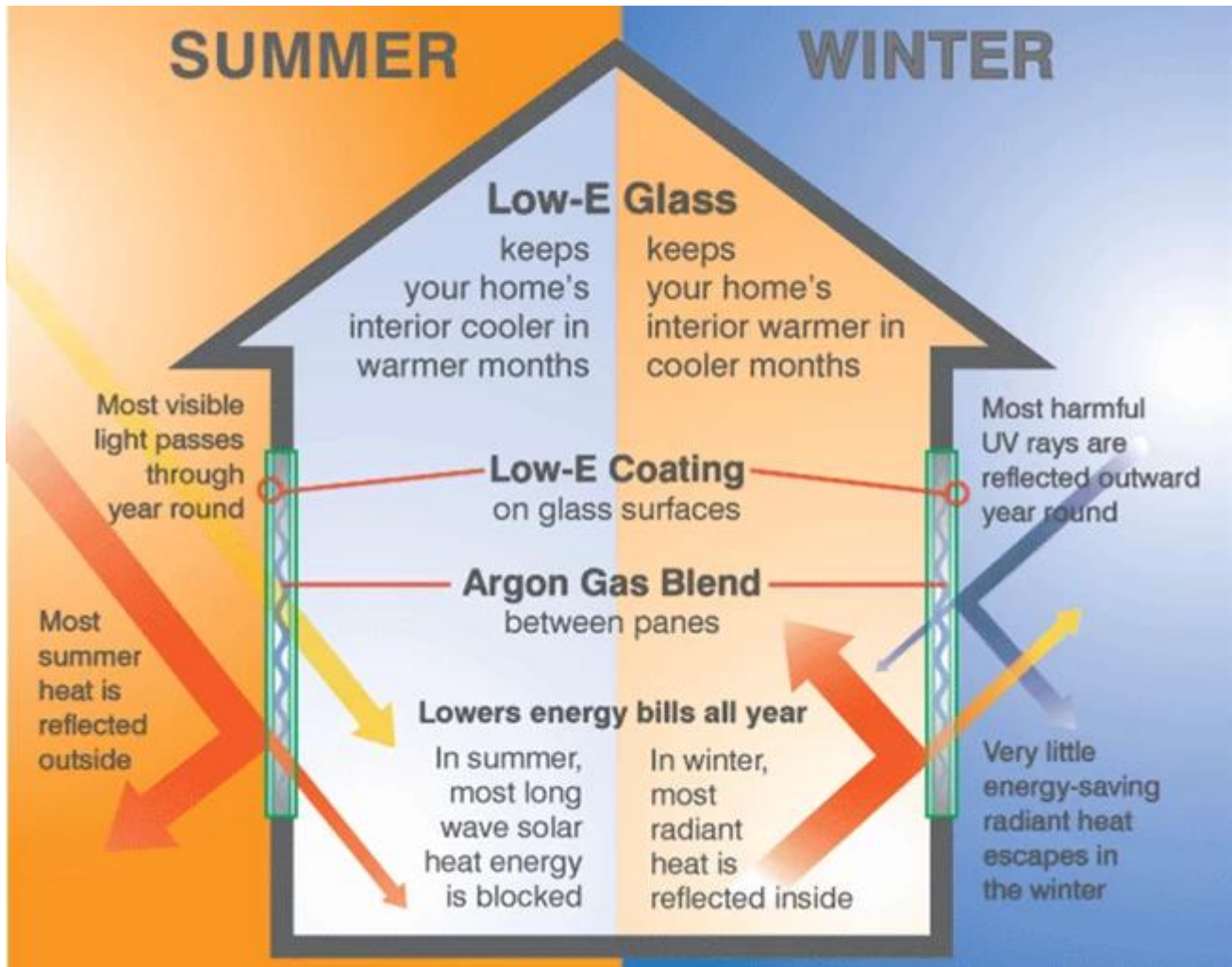
**Low Emissivity**

Low-E Low-Emissivity

1. Low-E 玻璃係指在玻璃表面鍍有低輻射率之膜層，此種膜層能反射太陽光中之紅外線，減少室內熱量之散失，從而達到節能之效果。此外，Low-E 玻璃亦具有優良之透光性，能保持室內之明亮度，並可減少室內空調之負擔。
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**Low E** กระจก กระจก กระจก กระจก กระจก กระจก กระจก:

