

# EASYTO

Solar Control PVB Interlayer



**2020.01 Catalog**

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# THIS IS A MIRACLE **RARE-EARTH TECH** **HEAT INSULATION MATERIAL**

Originate from Military Industry:  
Stealth fighters use Rare earth material coating to absorb wave.

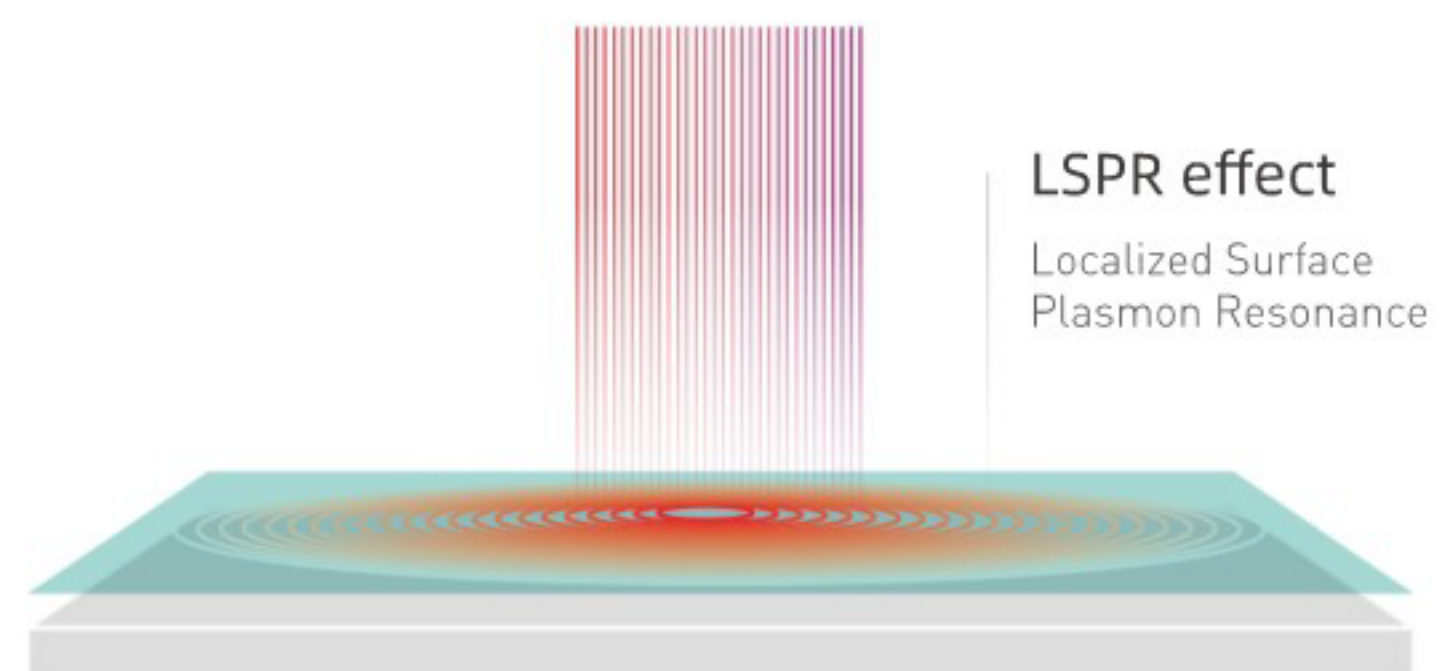


TECHNOLOGICAL REVOLUTION AND SUBVERT TRADITION

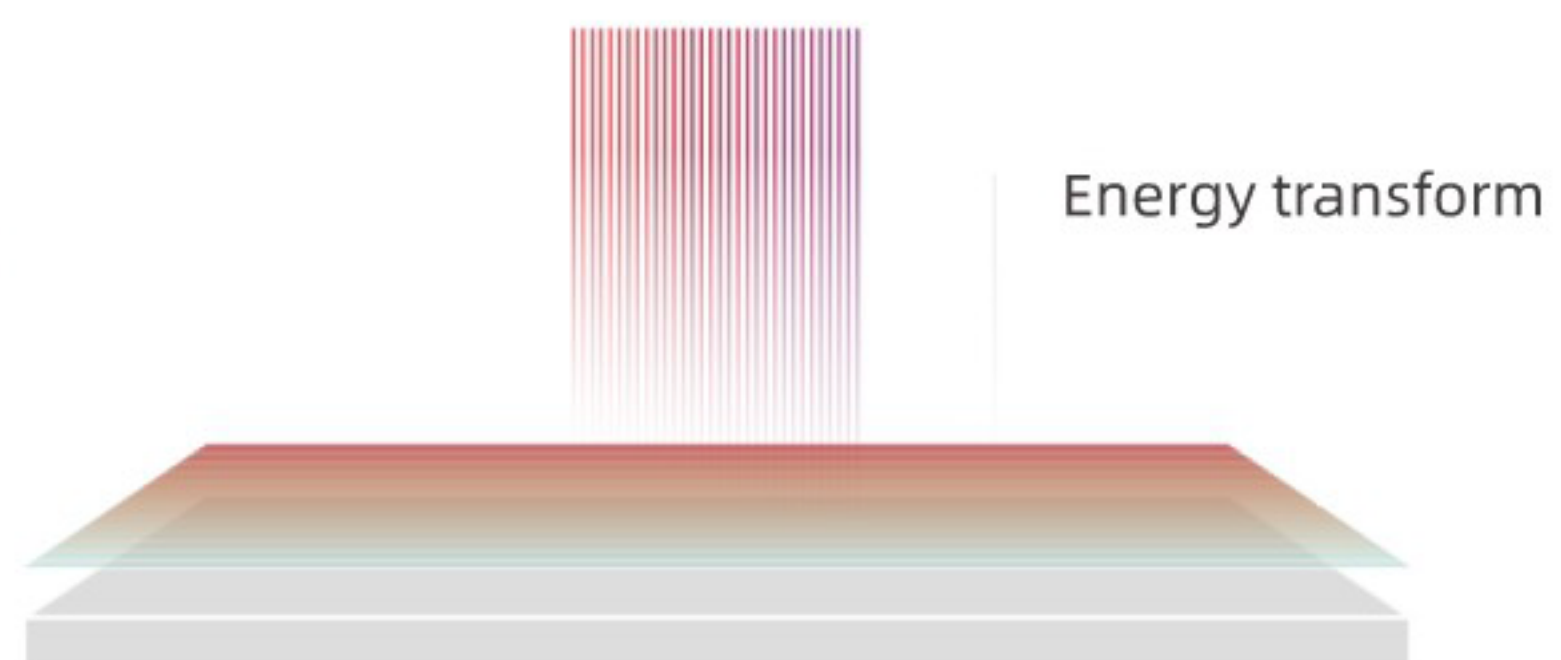
# Principle of heat insulation

BY RARE-EARTH ELEMENTS

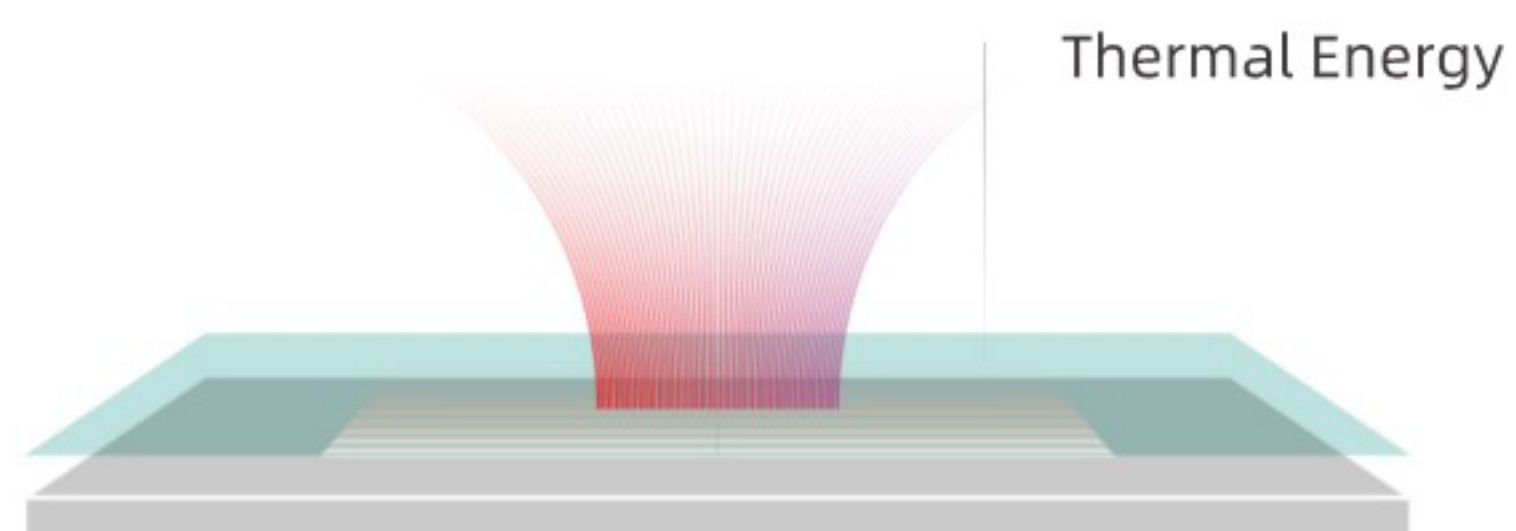
Plasma Resonance Effect between  
Near-Infrared Radiation Wave and  
Surface of Rare Earth Coating



Radiant of Heat Energy is  
converted to Physical Heat Energy



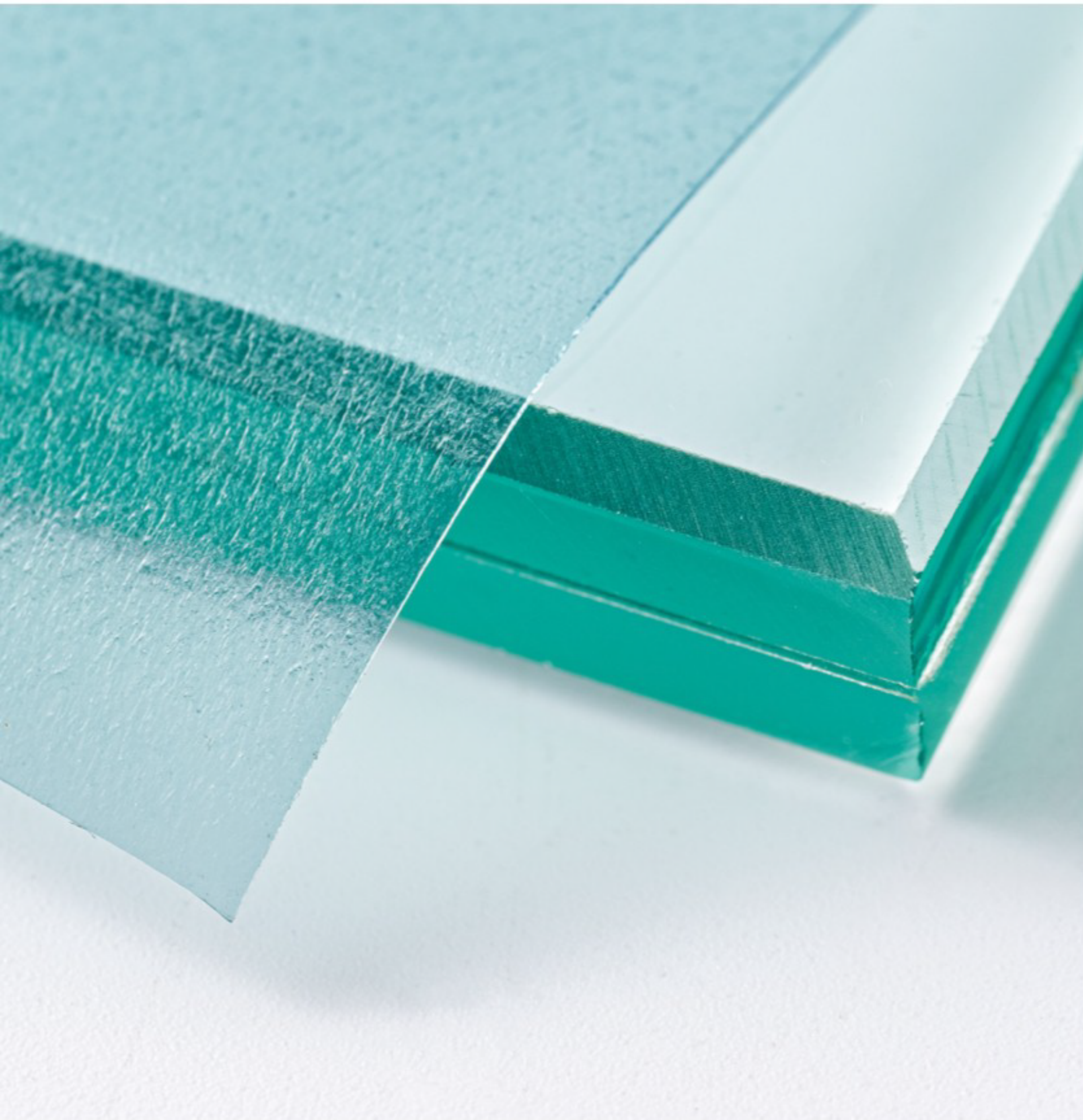
Heat Energy is carried away by  
Air Convection, achieve to lower  
the temperature.



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Product Name  
**Solar Control PVB Interlayer**

Product Code  
**EASYTO.1653**



## Best Heat Insulation PVB Interlayer

Due to apply rare-earth PVB interlayer,  
Make the laminated glass have excellent  
thermal barrier performance!  
And safety is same as other laminated glass!

Best heat insulation effect in the world

UV isolation rate is 99.99%, IR isolation rate is over 97.5%

Explosion-proof, soundproof, safety

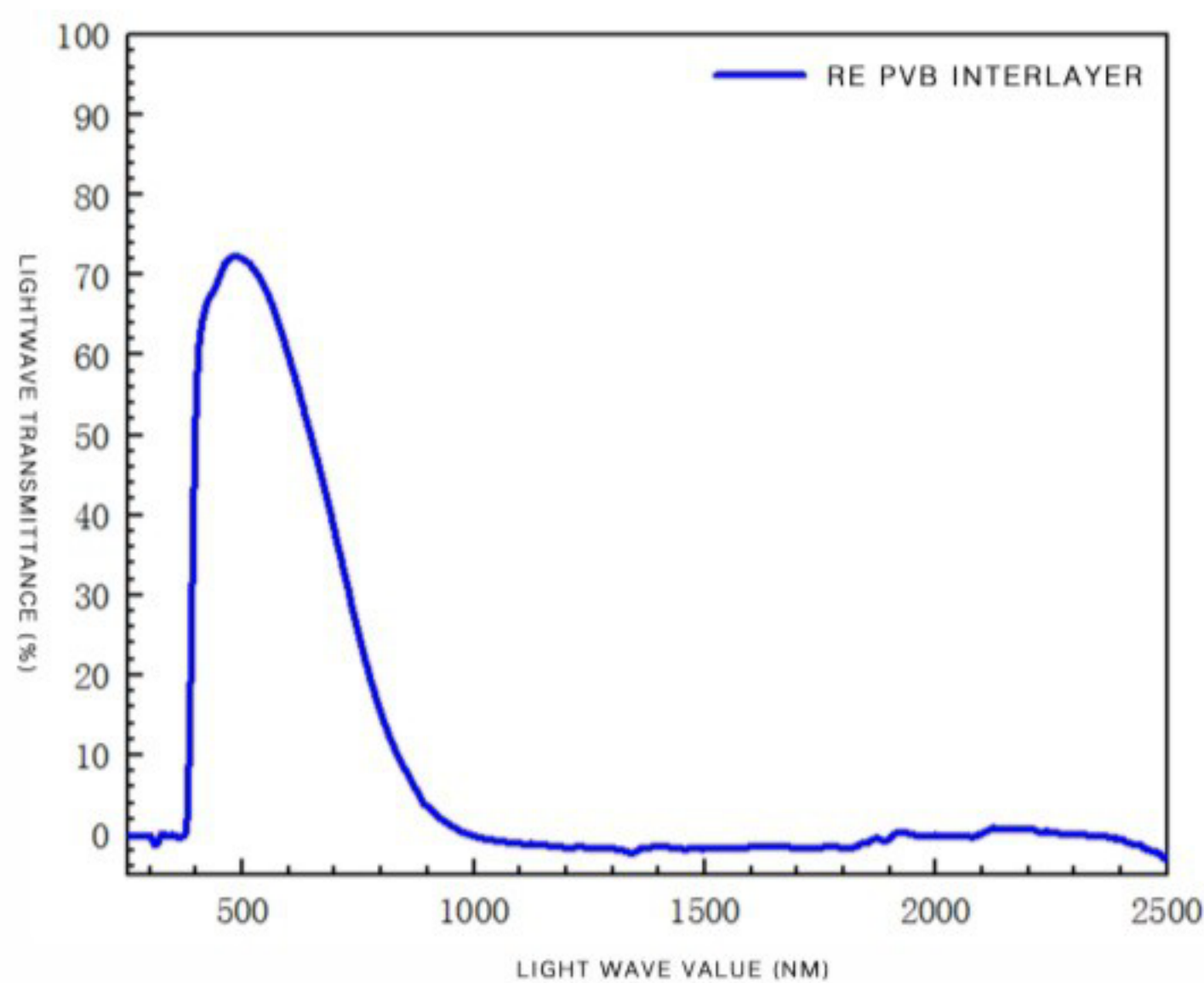
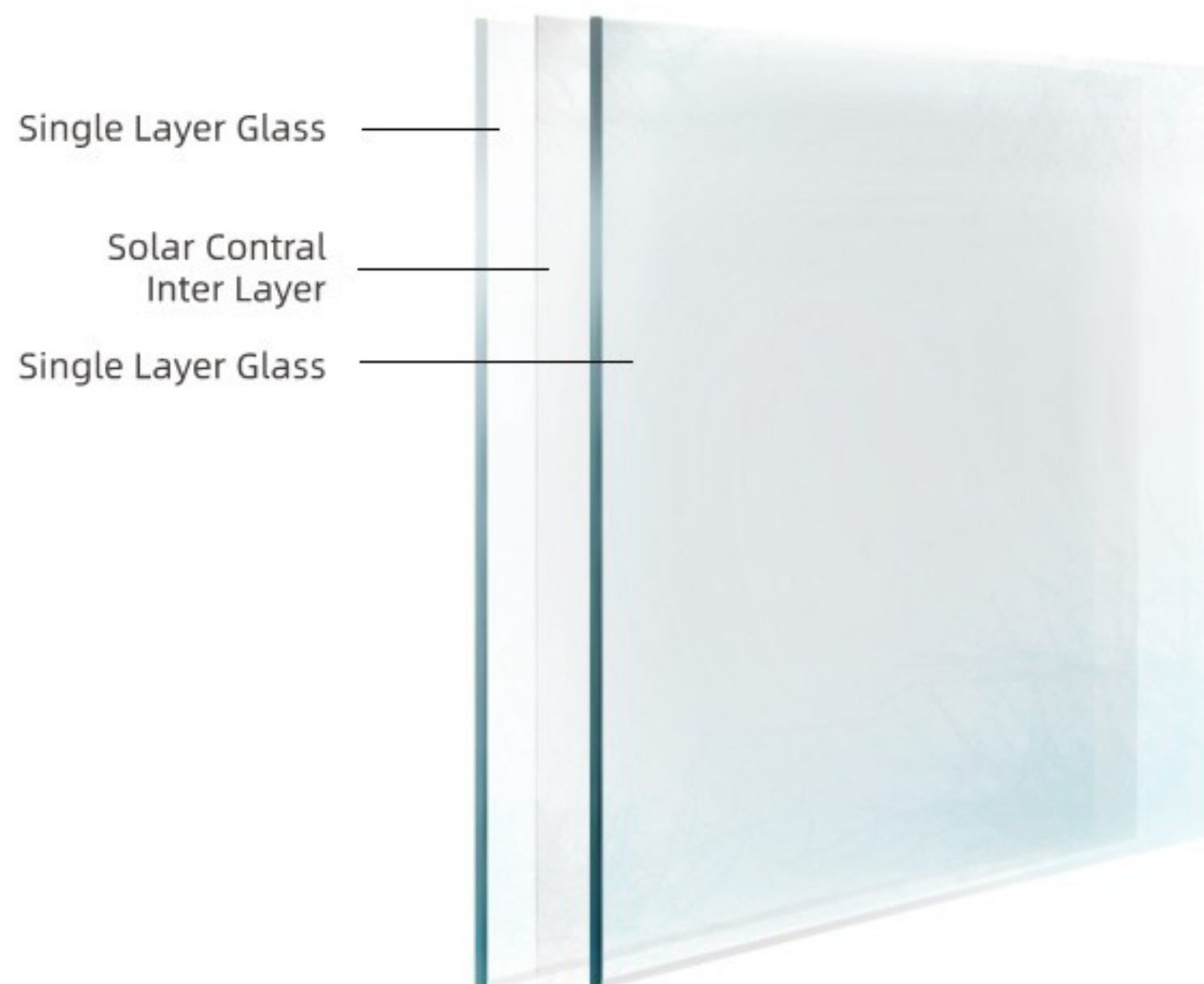
Stable performance, no failure

Physical Properties			
Thickness(mm)	0.38mm	Width(mm)	0.65m~3.2m
Length	200m/roll	Color	Light Blue
Adhesive force percussion value	Level 9	Moisture Content	0.20%
Tensile Strength (MPa)	22.8 Kg/cm <sup>2</sup>	Tensile Elongation (%)	200
Static shrinkage	5%	Melt Index(g/10min)	18.5
UV resistance	UV wavelength 313nm, 1000 hours, without Bubbles, cracks, slack		
Resistance to damp and heat aging	100 °C, 100% RH, 1000 hours, without Bubbles, cracks, slack		
High temperature resistance	90 °C, 1000 hours, without Bubbles, cracks, slack		

Physical Properties			
EASYTO.1653			
Blocked Infrared-light (%)	99.99%	Blocked UV-light (%)	97.5%
Haze	0.50%	Visible Light Transmittance (%)	70%
EASYTO.1653R (Sunlight Color Change Type)			
Blocked Infrared-light (%)	99.99%	Blocked UV-light (%)	99.8%
Haze	0.50%	Visible Light Transmittance (%)	* 15%~60%

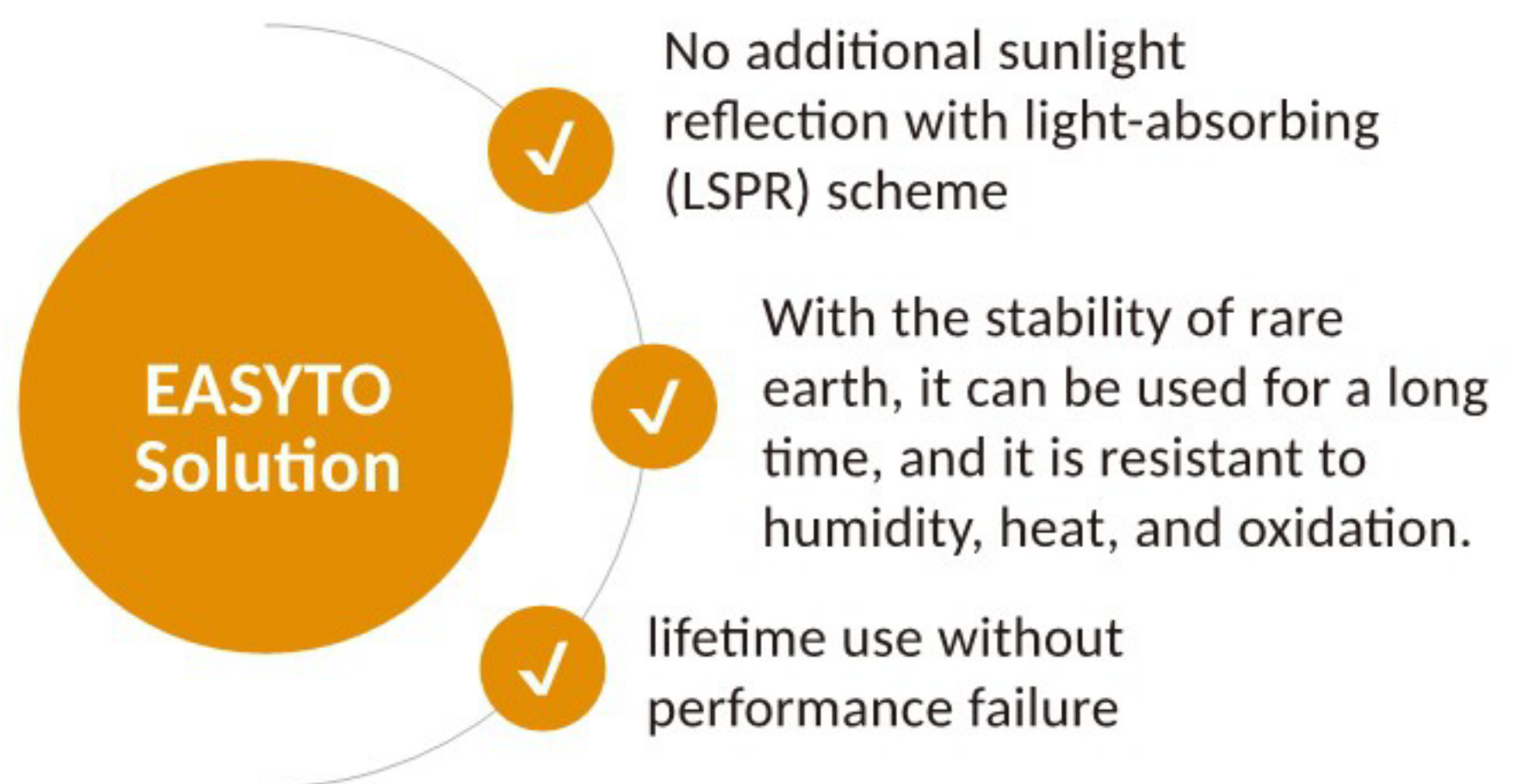
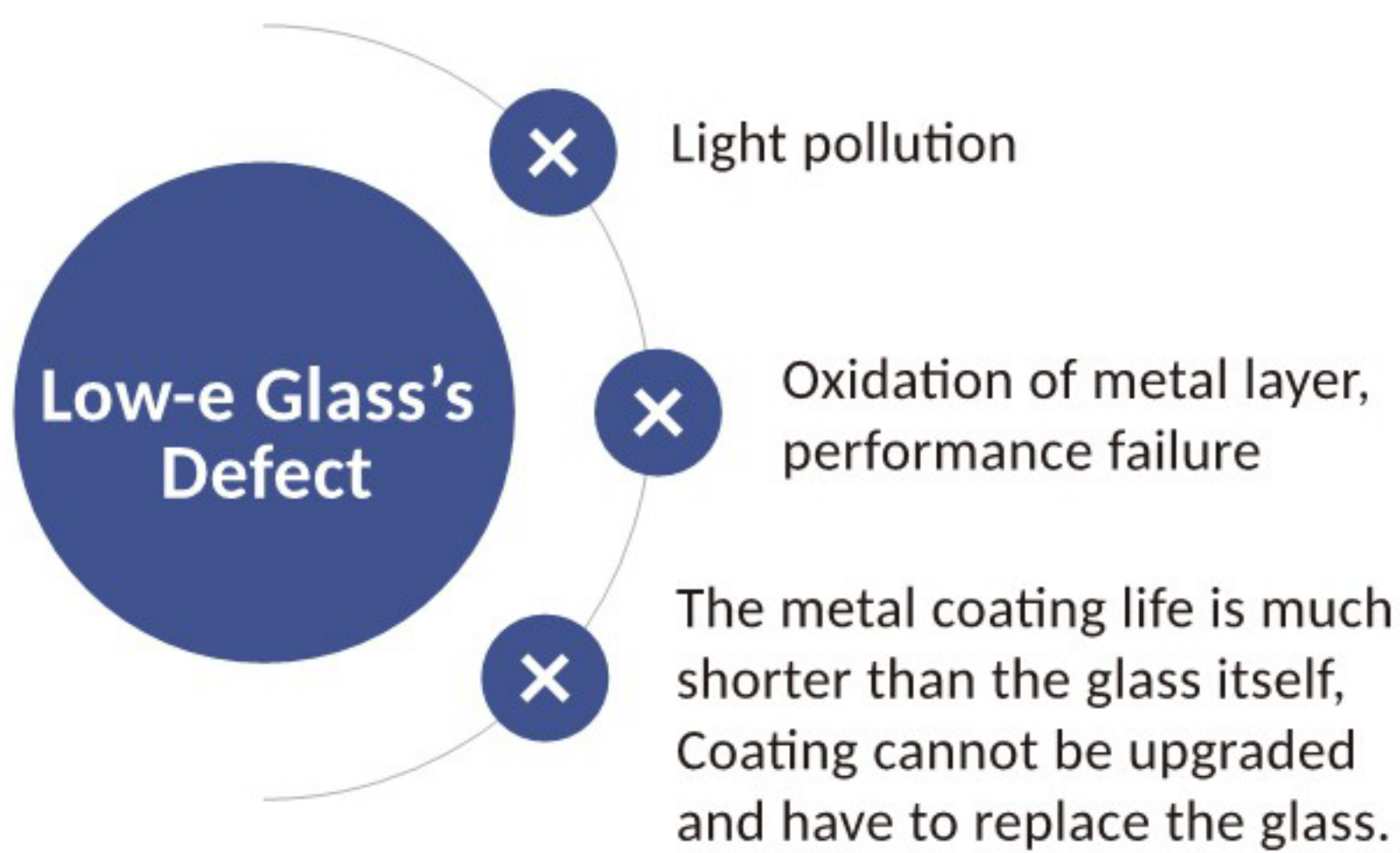
Note\*: "15%~60%" means that the value of visible light transmittance changes with the intensity of ultraviolet radiation, 15% is the lowest value, and 60% is the highest transmittance without ultraviolet radiation.

# Features

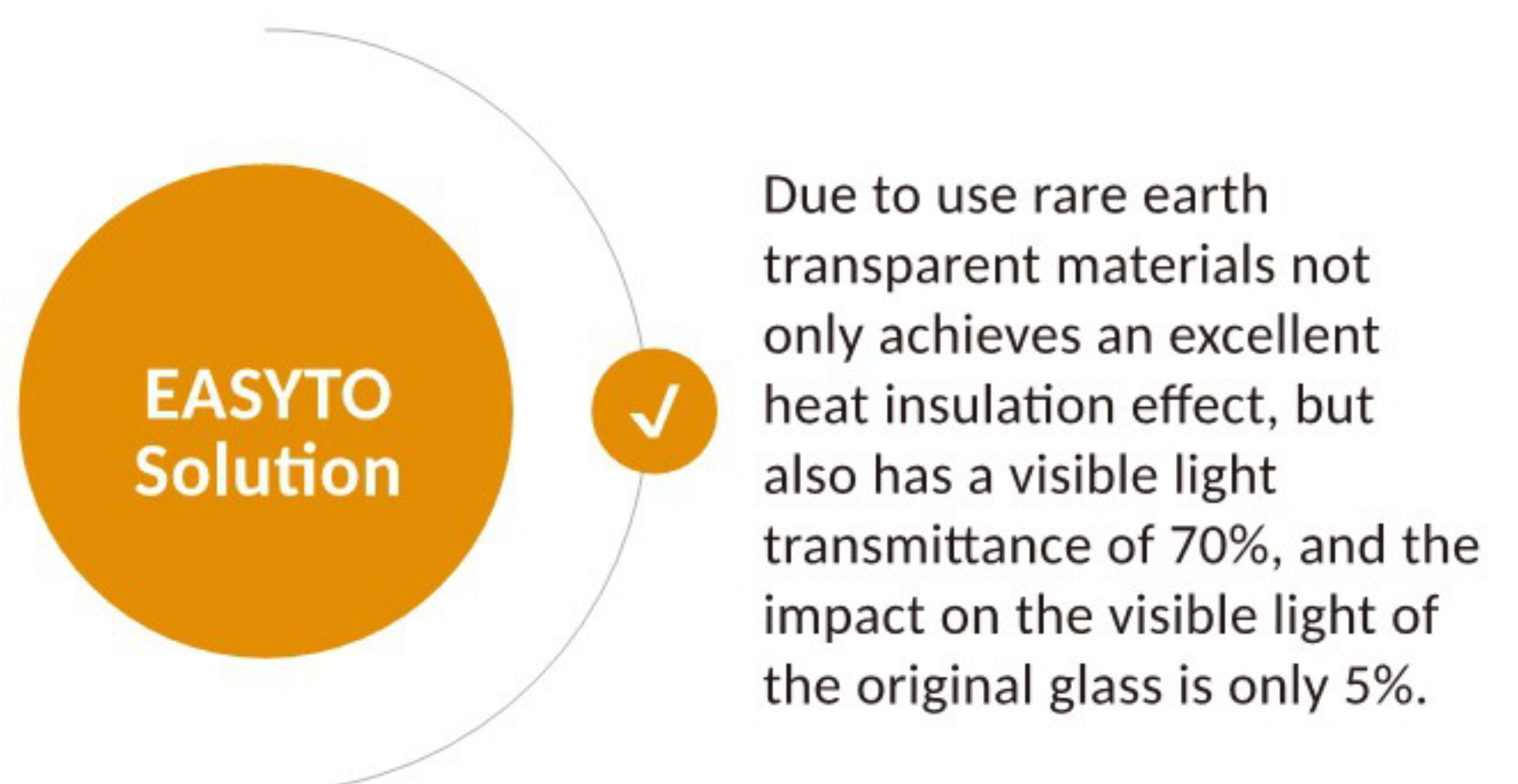
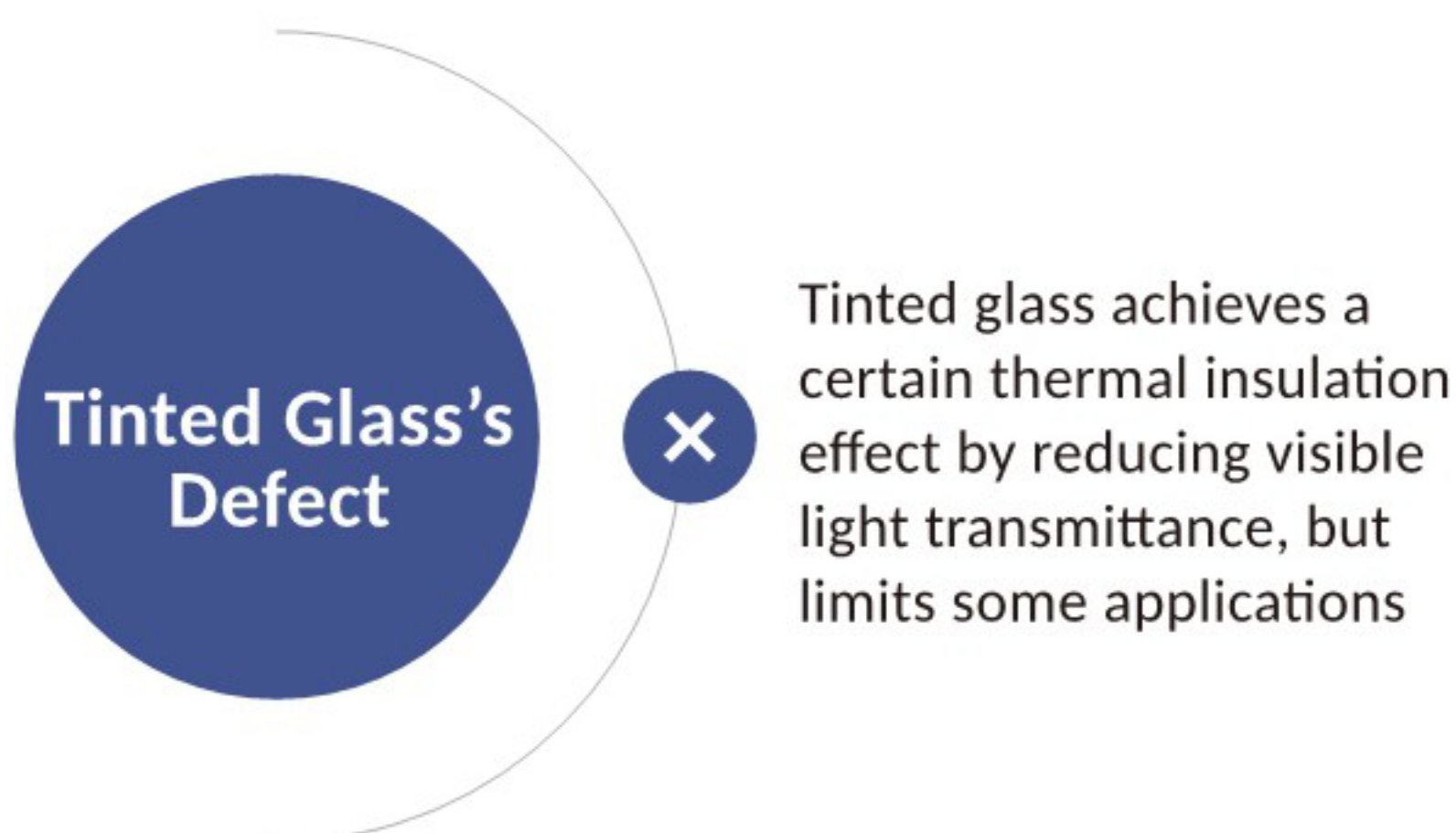


- High thermal insulation rate. The glass can adjust the indoor temperature by 7-15 degrees, saving more than 40% of energy for users in hot summer.
- The EASYTO.1653R sunlight color change RE glass laminated film will automatically change color with the intensity of ultraviolet radiation, which enhance the thermal insulation performance, provides skin and temperature comfort and protect privacy. High-tech brings new visual effects.
- The absorption spectrum is selected. RE laminated glass target and shield ultraviolet and infrared rays which is harmful to the human body, and allow the ambient light through that is beneficial to the human body. The ultraviolet blocking rate is 99.9%, the near-infrared blocking rate is 97.5%, and the near-infrared blocking rate of the sunlight color change type can even reach to more than 99.8%.
- Noise reduction. Enhancing the sound insulation effect of glass.
- Explosion-proof. The laminated film represents viscosity. Thus the glass will not fall off immediately once breaking, reducing the injury to people caused by the broken glass.
- Stable performance, lifetime use.

## Compare With Low-e Glass



## Compare With Tint Glass



## Compare With ATO/ITO Interlayer



Under high-temperature heating conditions, ATO/ITO interlayer products will irreversibly react with water and oxygen, resulting in failure of infrared absorption function, reduced performance, and reduced service life.

ATO/ITO interlayer film products only have a strong adsorption effect on infrared rays above 1500nm, resulting in insufficient overall heat insulation performance and substandard efficiency.



We use rare earth borides as functional materials, no other oxide metals.

Due to rare earth boride itself has the characteristics of high melting point, high hardness, low evaporation rate, stable chemical properties, etc., it has acid and alkali resistance, high-temperature resistance, stable product performance, and more relaxed production requirements, which can be directly applied to traditional PVB laminated glass Production line, under high-temperature production conditions, the heat insulation performance does not decay.

Using a unique formula, EASYTO has the function of selectively shielding light waves, and realizes the shielding of ultraviolet and infrared rays on the full spectrum, and has better thermal insulation performance.

Glass Roof: Sunlight Color Change Solar Control PVB Interlayer 1653R



Glass Curtain Wall: Solar Control PVB Interlayer 1653



- Glass Curtain Wall
- Low reflection glass
- Door and window glass
- Special glass that needs thermal insulation properties

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