



IR & UV Targeted Blocking Film

This film is reusable, one-way, energy-saving, and heat-insulating, made from rare earth materials.



COAST GLASS

SHENZHEN COAST GLASS CO., LTD.

COAST

COMPANY PROFILE

Shenzhen Coast Glass Co., Ltd. is a leading provider of glass solutions, dedicated to meeting diverse needs with over a decade of experience.

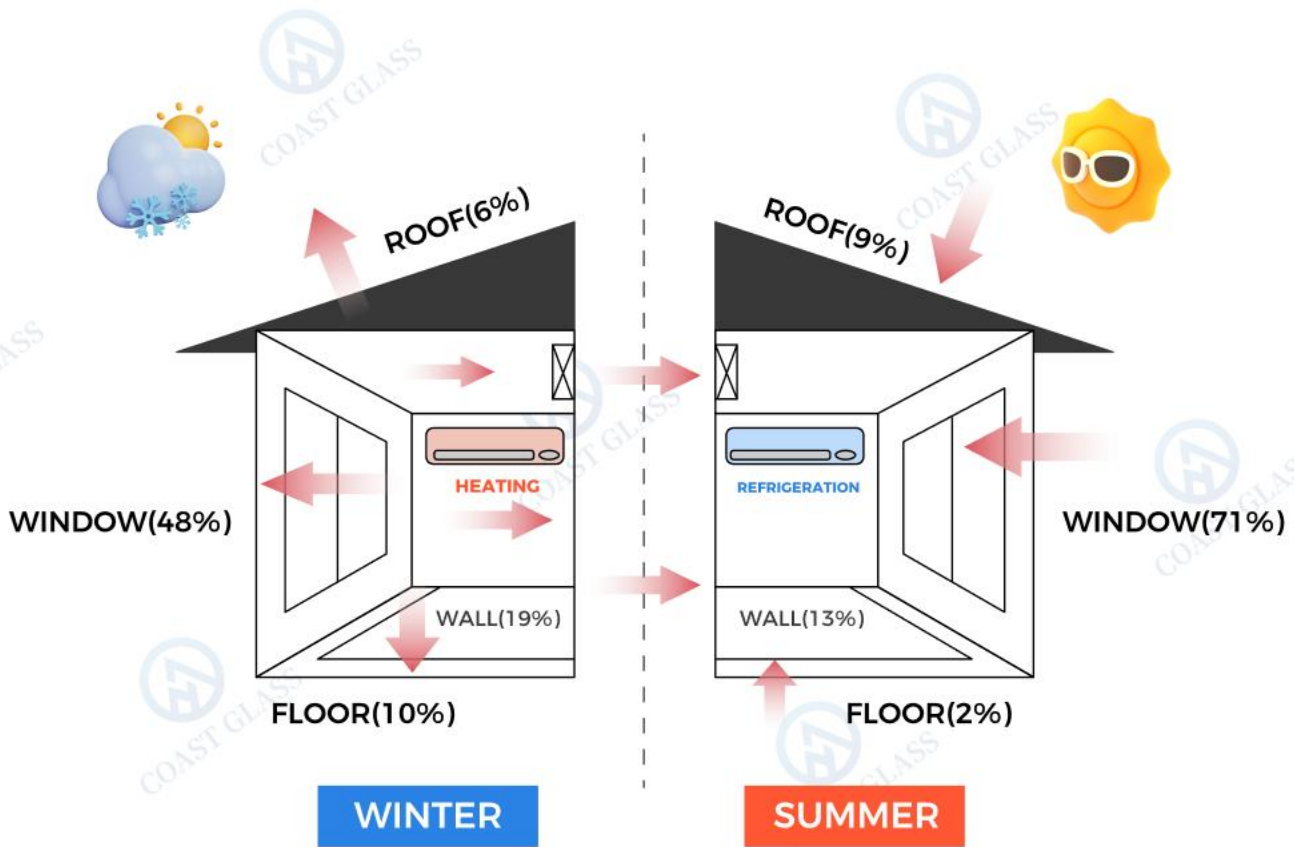
We've built strong partnerships with over 30 entities globally and serve customers across 150+ countries. With over 1,000 glass solutions and more than 10 patented technologies, we're committed to innovation and excellence.

Our mission is to lead the global glass industry through continuous technological advancement and superior customer service.



How do Window Films Work?

Environmental friendliness, cost-effectiveness, and strong tunability over traditional one-way films.



Reducing window energy exchange is of great significance to reducing building energy consumption!

Over 75% of existing buildings are high-energy-consuming, and current glass has many problems. So, developing and promoting high-performance energy-saving glass is crucial for building energy conservation.

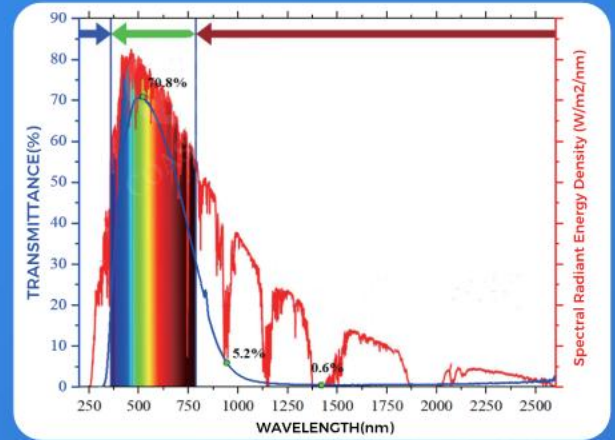


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Green Building with IR & UV Targeted Blocking Film

Coast thermal insulation film utilizes the absorbency of rare gold nano-antimony tin oxide (ATO), cesium tungsten bronze (CWO) nano-powder, and other nano-materials for different infrared and ultraviolet bands to create functional dispersions. It also employs the stability of rare earth oxides to develop composite targeted coatings with comprehensive functionality as raw materials.

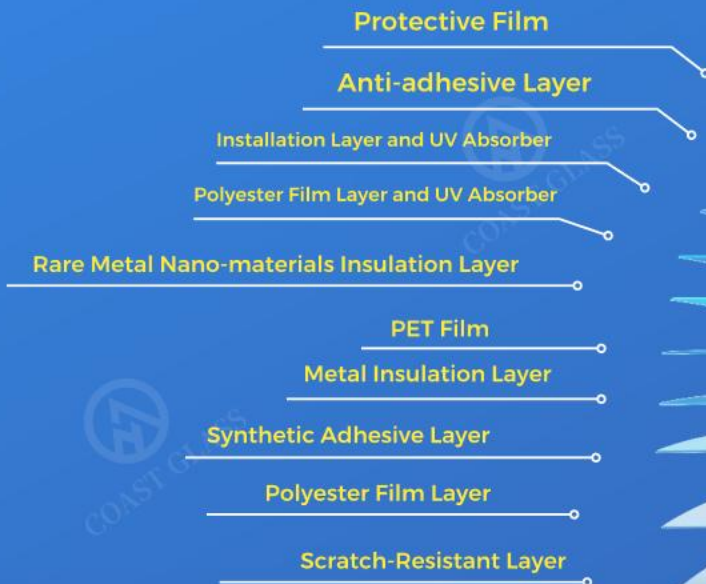


COAST FUNCTIONAL THERMAL INSULATION COATING---SPECTROGRAM

FILM MATERIAL LAYERED SCHEMATIC



COAST GLASS

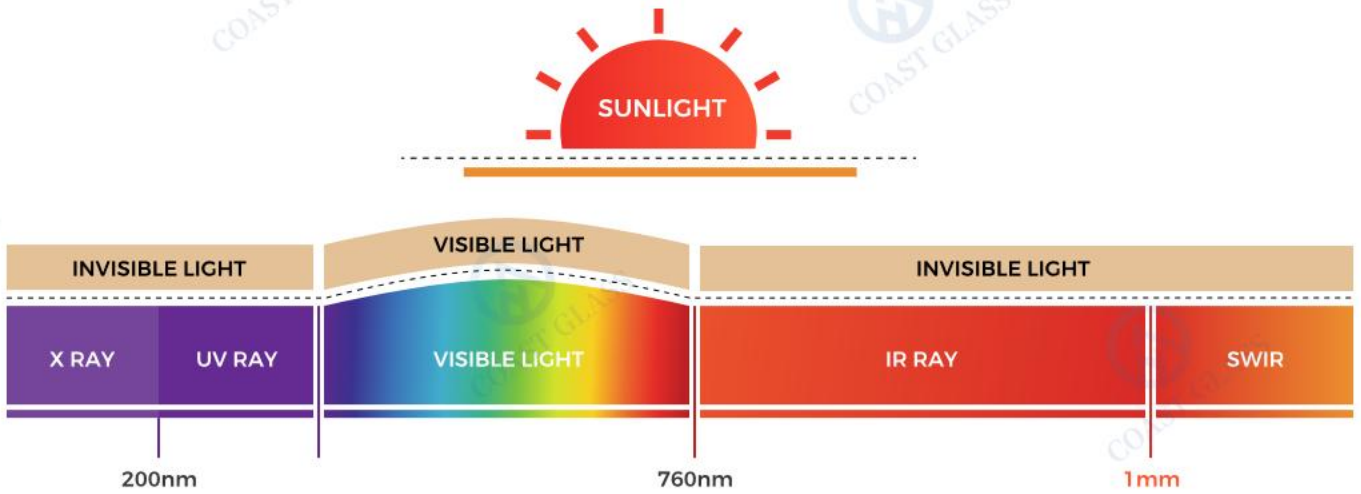




FUNCTION 1

Thermal Insulation

In summer, the main source of indoor heat is thermal radiation, simply put, the heat from sunlight shining in.



HEAT CONTENT IN SUNLIGHT:



KEEPS COOL IN SUMMER

In summer, it excels at blocking infrared heat, keeping the interior cool.



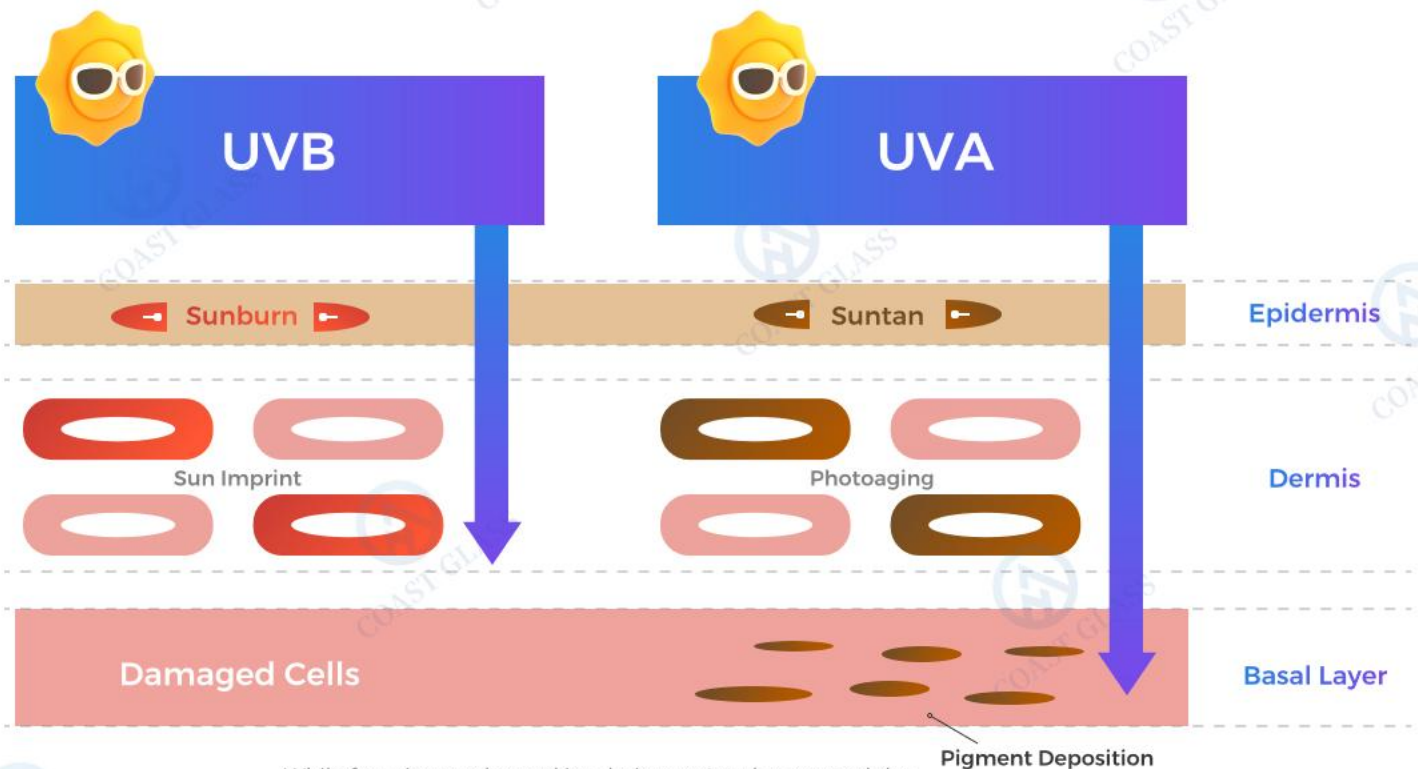
KEEPS WARM IN WINTER

In winter, it reduces glass heat conduction and uses the film's reflectivity to slow heat loss to the outside.

FUNCTION 2

UV Blocking

Using dual - layer UV blocking technology, the film system achieves over 99% UV block efficiency.



While focusing on thermal insulation, we've also ensured the film blocks harmful rays that can damage your skin

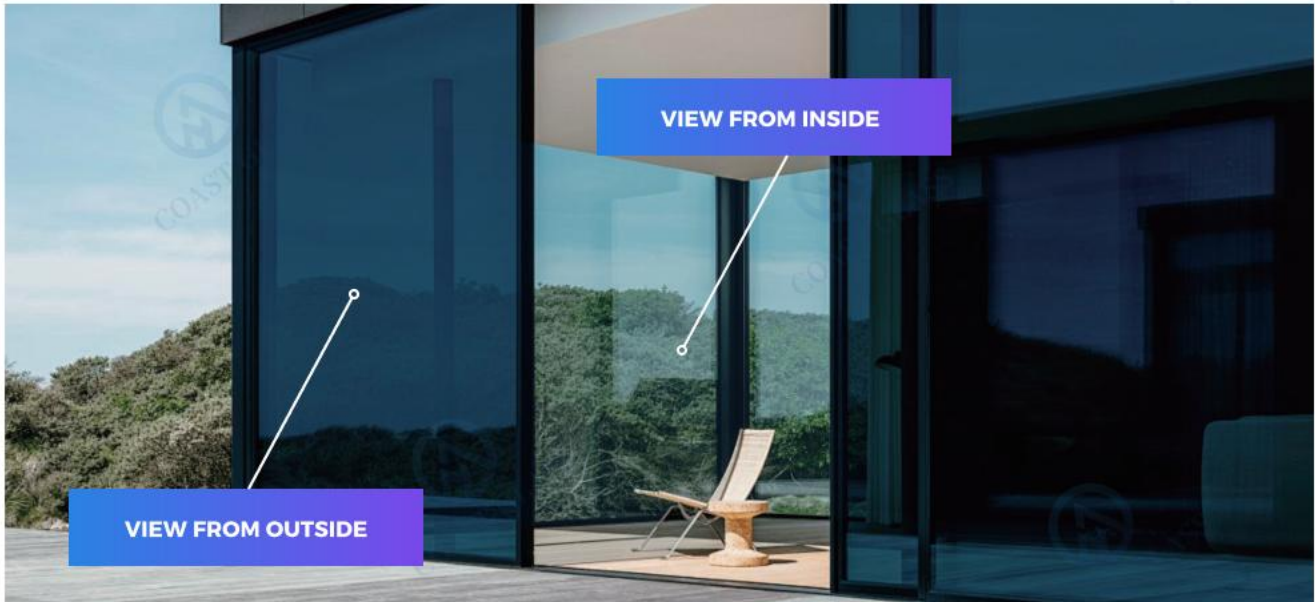
HEAT AND SKIN PROTECTION WITH FILM

In summer, indoor heat stems from solar radiation. Our heat - insulating film, with dual - layer UV - blocking tech, filters out skin - harmful UVA and UVB rays. UVA causes long - term damage like pigmentation and fine lines; UVB leads to short - term issues like sunburn and tanning. Equipped with UV absorbers and reflective layers, the film offers both thermal insulation and all - around skin UV protection.

FUNCTION 3

One-way Privacy

By controlling reflectivity and transparency, the film reduces inward visibility, safeguarding indoor privacy.



FUNCTION 4

Safety and Explosion-Proof

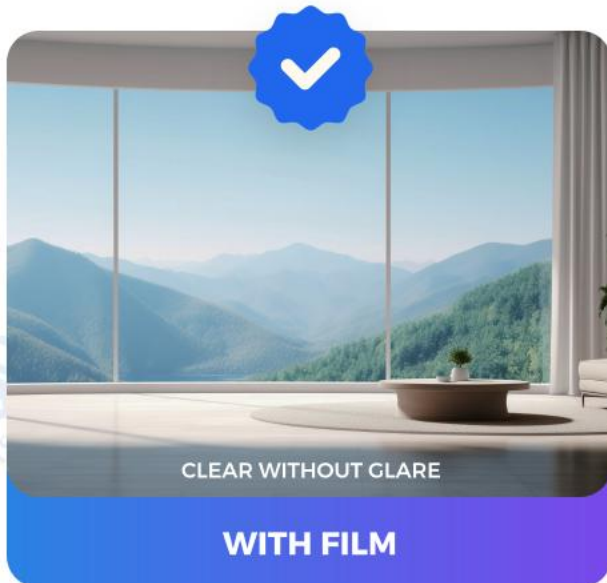
It has high puncture resistance. Even if the glass breaks, it won't shatter widely, preventing injury or damage from glass shards.



FUNCTION 5

High-Definition Anti-Glare

Filters some glare and reduces visible light intensity; protects eyes from strong light damage. Helps improve vision and enjoy views.



FUNCTION 6

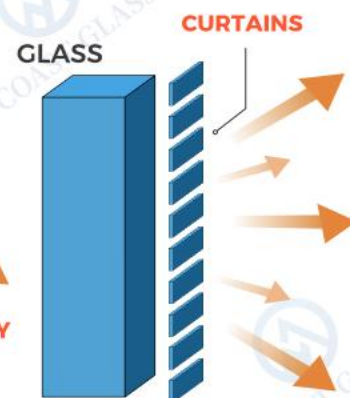
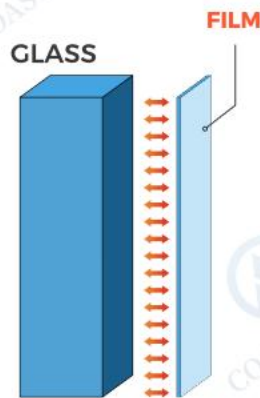
Energy-saving, Eco-friendly

By blocking outdoor heat in summer and reducing indoor heat loss in winter, it significantly cuts cooling and heating costs.



Targeted Blocking Film vs Traditional Curtains

Heat - insulating Principle Diagram



TARGETED BLOCKING FILM

Most heat is kept outside, with minimal heat entering indoors.

TRADITIONAL CURTAINS

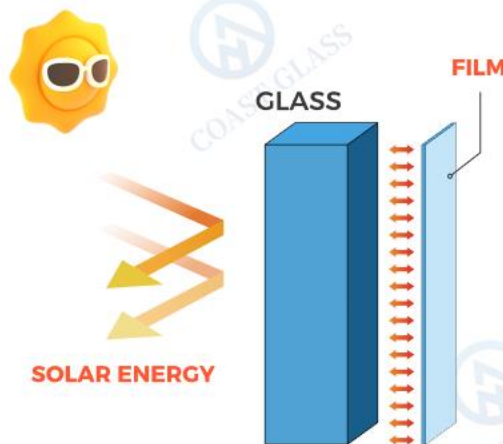
Heat directly passes through glass windows, allowing a large amount of heat to enter indoors.

	TARGETED BLOCKING FILM	TRADITIONAL CURTAINS
Thermal Insulation Properties	Blocks over 95% of solar heat, and is tested to have excellent heat - blocking effect	No heat - insulating effect, only provides light - blocking function
UV Blocking	Blocks 99% of UV rays, preventing indoor furniture and decorations from fading easily	To block UV rays, you need to close the curtains
Light transmittance	Yes. Transmittance can be selected from 15%-75%	Yes, but it will also reduce room brightness
Anti - glare	Anti - glare and comfortable vision	No anti - glare effect
Reduces glass breakage and flying shards	Effectively prevents glass from shattering	No effect at all
Installation method	Without drilling holes or using brackets	Requires drilling holes or using brackets for installation
Cleanliness level	Easy to clean	Prone to dust accumulation and difficult to clean

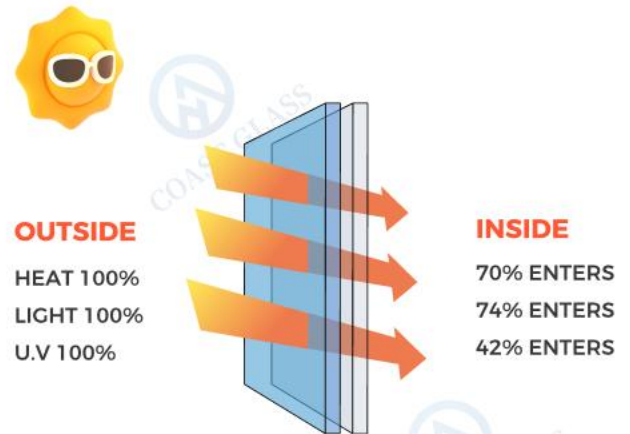


Targeted Blocking Film vs LOW E CLASS

Heat - insulating Principle Diagram



SOLAR ENERGY



OUTSIDE
 HEAT 100%
 LIGHT 100%
 U.V 100%

INSIDE
 70% ENTERS
 74% ENTERS
 42% ENTERS

TARGETED BLOCKING FILM

Most heat is kept outside, with minimal heat entering indoors.

LOW -E GLASS

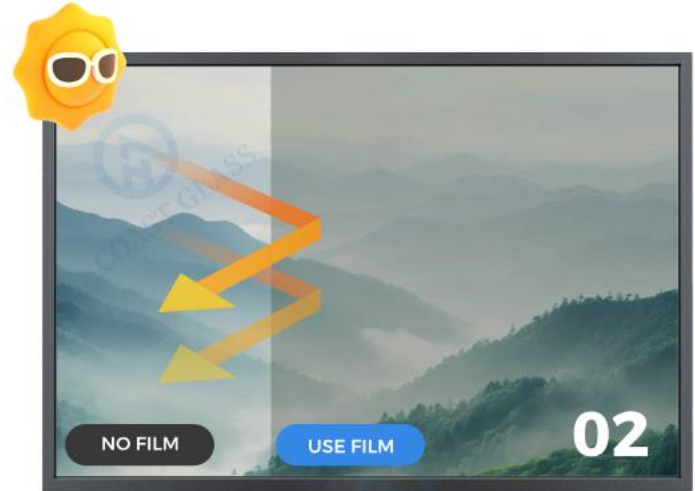
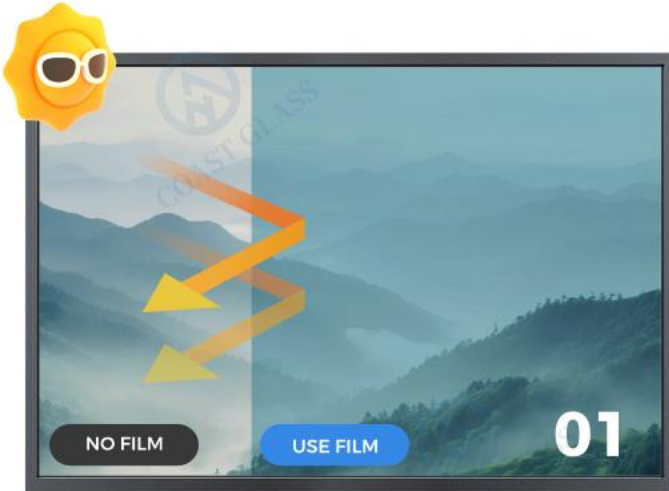
Heat directly passes through glass windows, allowing a large amount of heat to enter indoors.

	TARGETED BLOCKING FILM	LOW-E GLASS
Thermal Insulation Properties	lower shading coefficient, higher thermal insulation performance	Common Low-E glass has high transmittance of solar radiation and mainly has heat preservation effect, but weak heat insulation effect.
UV Blocking	99% UV blocking, making indoor furniture and decorations less likely to fade	Less than 90% UV blocking
Light transmittance	Glare-proof, comfortable vision	No effect
ANTI - CLARE	Anti - glare and comfortable vision	No anti - glare effect
Reduces glass breakage and flying shards	Effectively prevents glass from shattering	No effect at all
COST	LOW	HIGH
Durability	No fading, no oxidation	Metal coating, easy to oxidize
Renovation of existing buildings	Low cost, easy construction, and will not affect normal operations	The cost is high, and both the glass and the structure need to be replaced, affecting normal operations.



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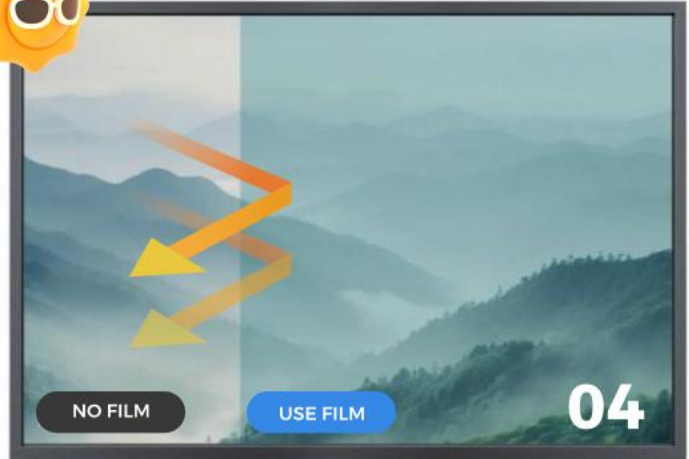
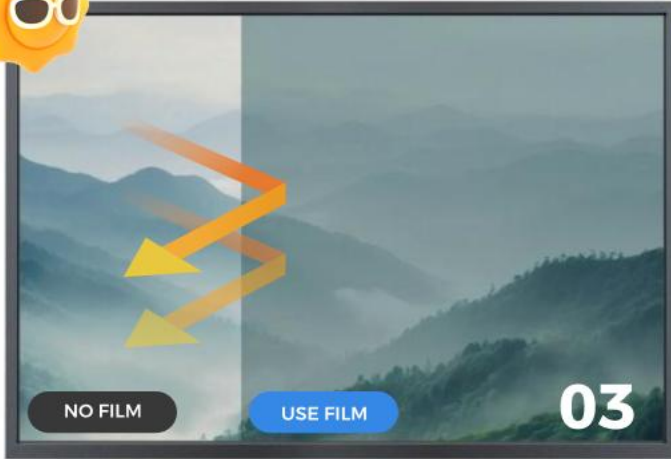


HA-SCWF-T60-01-GX

HA-SCWF-T45-02-GX

Thickness	2mil
Overall infrared blocking rate (IRR%)	99%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	60%
Total solar energy rejection rate (TSER%)	66%
Shading coefficient (SC)	0.43
Warranty period	10 YEARS

Thickness	2mil
Overall infrared blocking rate (IRR%)	99%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	45%
Total solar energy rejection rate (TSER%)	71%
Shading coefficient (SC)	0.3
Warranty period	10 YEARS

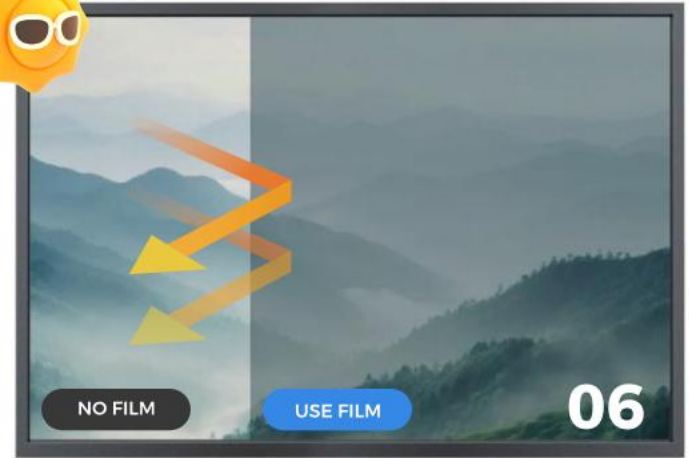
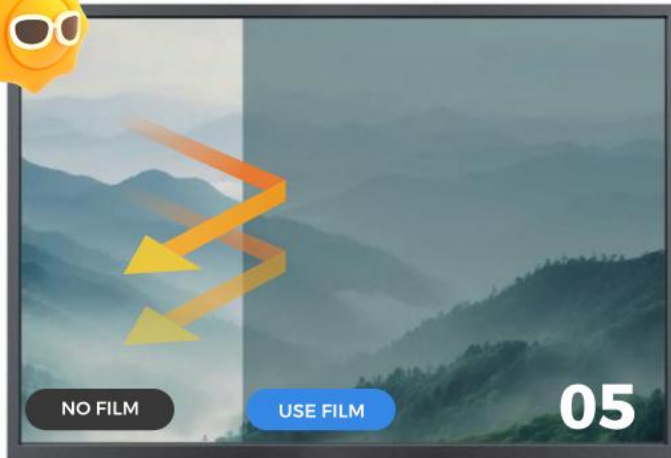


HA-SCWF-T35-03-GX

Thickness	2mil
Overall infrared blocking rate (IRR%)	99%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	35%
Total solar energy rejection rate (TSER%)	79%
Shading coefficient (SC)	0.23
Warranty period	10 YEARS

HA-SCWF-TF60-04-GX

Thickness	4mil
Overall infrared blocking rate (IRR%)	96%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	60%
Total solar energy rejection rate (TSER%)	64%
Shading coefficient (SC)	0.35
Warranty period	10 YEARS



HA-SCWF-TF35-05-GX

Thickness	4mil
Overall infrared blocking rate (IRR%)	99%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	35%
Total solar energy rejection rate (TSER%)	78%
Shading coefficient (SC)	0.22
Warranty period	6 YEARS

HA-SCWF-TF25-06-GX

Thickness	4mil
Overall infrared blocking rate (IRR%)	99%
Ultraviolet blocking rate (UV R%)	99%
Visible light transmittance (VLT%)	25%
Total solar energy rejection rate (TSER%)	85%
Shading coefficient (SC)	
Warranty period	6 YEARS



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APPLICATION CASES

RESIDENTIAL AND OFFICE BUILDINGS

Enclosure - related energy consumption accounts for 30% - 40% of a building's total, with glass causing over 70% of heat loss. Our film can enhance glass heat - insulation and thermal retention, block harmful UV rays that cause irreversible indoor human and property damage, boost air - conditioner performance, and cut energy use.



ROOF AND CEILING

Building evolution increases glass usage. This causes heat loss in malls, hotels, and stations, overburdening air conditioners. It results in longer cooling/heating times, reduced effectiveness, higher energy consumption, and lower indoor comfort.



EXHIBITION HALL OR SHOWCASES

In exhibition and display areas, items like food, calligraphy, furniture, and clothing are often exposed to long - term UV radiation, causing irreversible damage such as spoilage, yellowing, and discoloration. Therefore, these areas need to prevent harmful UV penetration. Our heat - insulating film can block UV rays effectively and has superior weather resistance.

