



Zonling High Performance Window Films
Solar Control | UV Projection | Safety&Privacy



Zonling Window Films

Zonling is a world-leading window film manufacturer founded in China. It's parent company Dalian Allied Nanotech is one of the certified members of International Window Film Associations (IWFA). With its advanced vacuum sputtering and precision coating facilities and patented proprietary technologies, Zonling has led a revolutionary transformation of the window film industry from low-end "Made in China" products to a high-end "Intelligently Manufactured in China" products.

Zonling is committed to providing customers with high quality window film products regarding the performance of heat rejection, energy saving and security protection. As a result, customers no longer have to turn to imported products to get high quality window films.



State-of-the-art Manufacturing Technology

Leading-edge vacuum multi-layer sputtering equipment



High precision coating and laminating production line



Rigorous performance testing

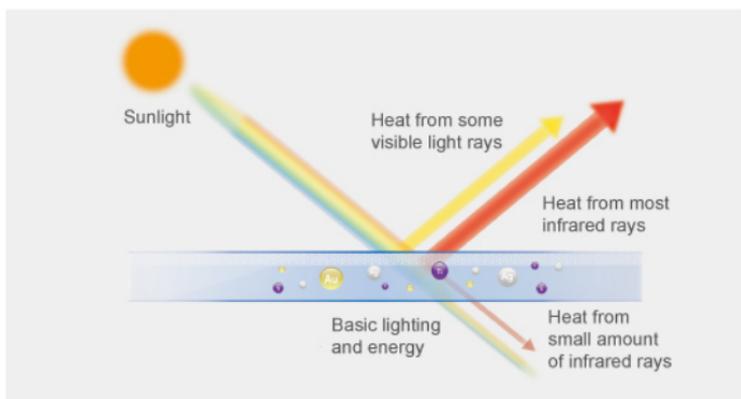
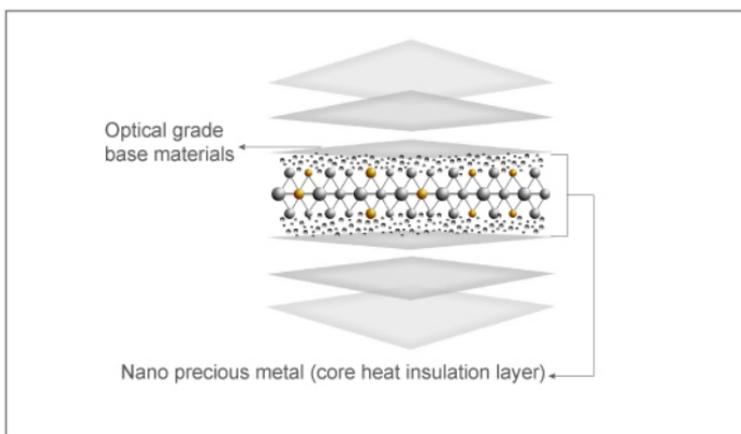


Class 100 cleanliness control



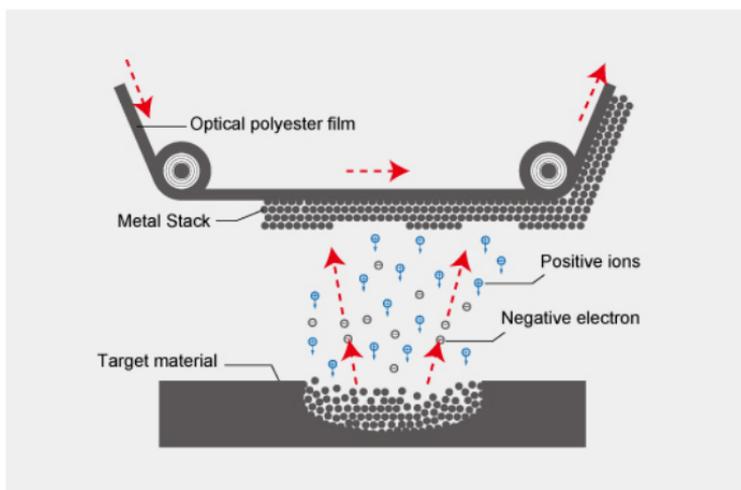
Smart Micro-electron Light and Heat Separation Technology

Jointly-developed with a German laboratory, the proprietary light and heat separation technology can filter light spectrum based on intensity using nano-metallic layers of different optical attributes. While satisfying normal lighting and basic energy needs, the technology blocks excess heat to achieve optimal balance between transparency and heat insulation.



Patented New Generation Sputtering Film Structure

Using multi-layer sputtering technology, Zonling can adjust the arrangement and accumulation of precious metal particles on the surface of the base material to deliver customised colours and performance.





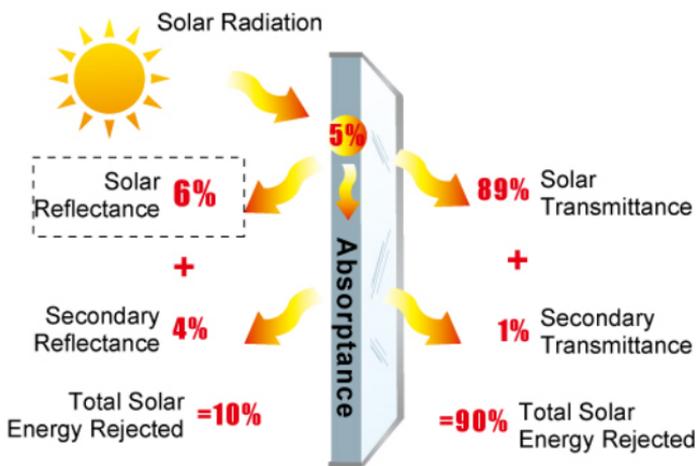
Highest level certification in industry

One of The Eight Certified Members of International Window Film Associations (IWFA)

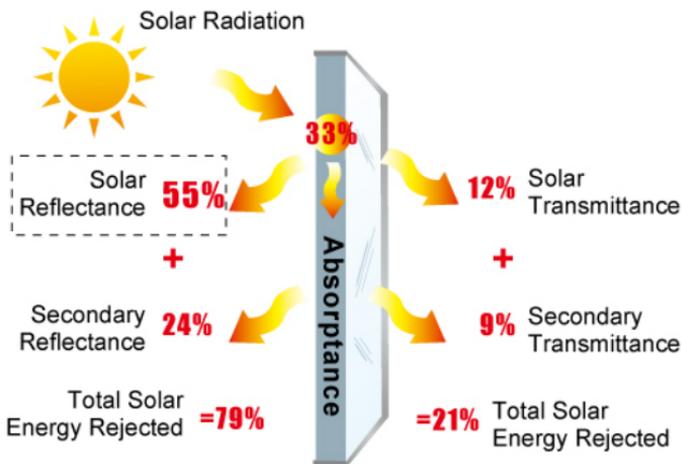


Heat Rejection Principals of high performance films

Glass without Film



Glass with Zonling superior infrared reflection Film



Key Benefit of Zonling Window Films



High IR Rejection



UV Block



Energy Saving



Double thickness
& Safety

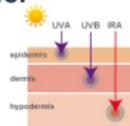
Optimal Heat Rejection And Comfort

Providing comfort light
while most infrared
reflected



Sun-resistant for healthier skin

True protection
of skin=UV block
+high IR rejection



Enhanced safety performance

Upgrade glazing to
protect your loved ones
and assets



Enhance privacy & Glare reduction

Protect exclusive
private space Prevent
glare from the sun-lights



Cold balance for air conditioning

Improving air
conditioning flow
between inner side
and window side



Fading protection

Help protect your
furniture and fabric
fading from
harmful light



Energy-saving, lower carbon emission

Contribute to the
environment by
reducing air-con load



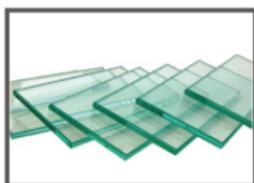
Enjoy safe air

Original precious
metal colours, No
dye or other
harmful volatile
compounds





Glass
Performance
Greatly
Improved



VS single/double pane

- ▶ Total Solar Energy Rejection upgrade
4 times(X70 VS single pane)
- ▶ Reduce glass replacement cost
- ▶ Increase UV block to 99%
- ▶ Add safety and security

VS low-E

- ▶ Enhance heat rejection
- ▶ Increase UV block to 99%
- ▶ Add safety and security
- ▶ Easy replacement

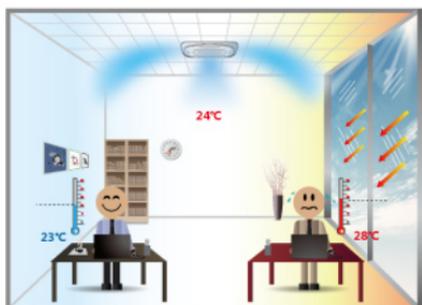
VS Toughened glass

- ▶ Enhanced crack resistance
- ▶ Prevent shatter from falling
- ▶ Help prevent injury
- ▶ Applicable to curved glass





Greatly Enhance Indoor Comfort



Air-con 24°C ,
room temperature gap 5°C without films



- ▶ Reflect excessive heat to improved comfort
- ▶ Reduce temperature difference with air-con
- ▶ Prevent UV attack to protect skin and eyes
- ▶ Protect privacy like one way mirror
- ▶ Reduce glare from sun-lights
- ▶ No harmful volatile compounds



Air-con 24°C ,
room temperature gap 1°C with films





Effectively
Reduce Air
Conditioning
Energy
Consumption

- ▶ Reduce cooling costs by up to 30% in summer
- ▶ Indoor and outdoor 4-6 °C difference with films
- ▶ Prevent indoor heat loss in winter
- ▶ Contribute to the environment by reducing air-con load

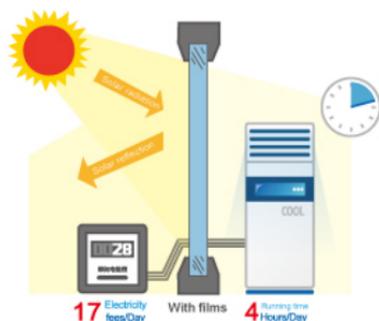
Power consumption simulation

SAVE ¥ 1153 RMB/Summer

Indoor environment: 160m², air-con load 15KWH, room temperature keep 25 °C



¥ 2690 RMB/Summer



¥ 1537 RMB/Summer

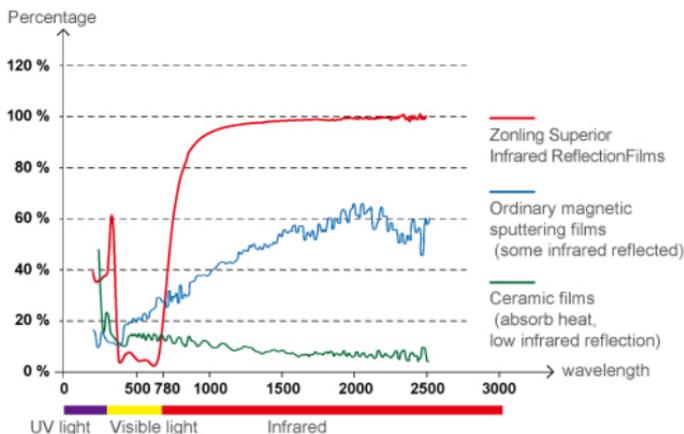


ZONLING Window Films

Superior Infrared Heat Reflection Films

53% of the heat from sunlight come from infrared rays (780nm-2,500nm) and most of the heat from infrared rays are concentrated in the near infrared (780nm-1,400nm). The reflective performance within this wavelength shows how good a window film product . After 6 years of R&D, Zonling has achieved a breakthrough in conventional "insulation and absorption" window films to achieve superior infrared reflection using a patented film design (heat reflection).

Infrared Reflection Comparison





Z60

Visible Light Transmittance %	60
Visible Light Reflectance(Ext.) %	10
Visible Light Reflectance(Int.) %	9
Ultraviolet Blocked %	99
Shading Coefficient %	0.45
IR Rejection %	90
Total Solar Energy Rejected %	61
Thickness(mil)	3
Warranty	10 Years



Z60

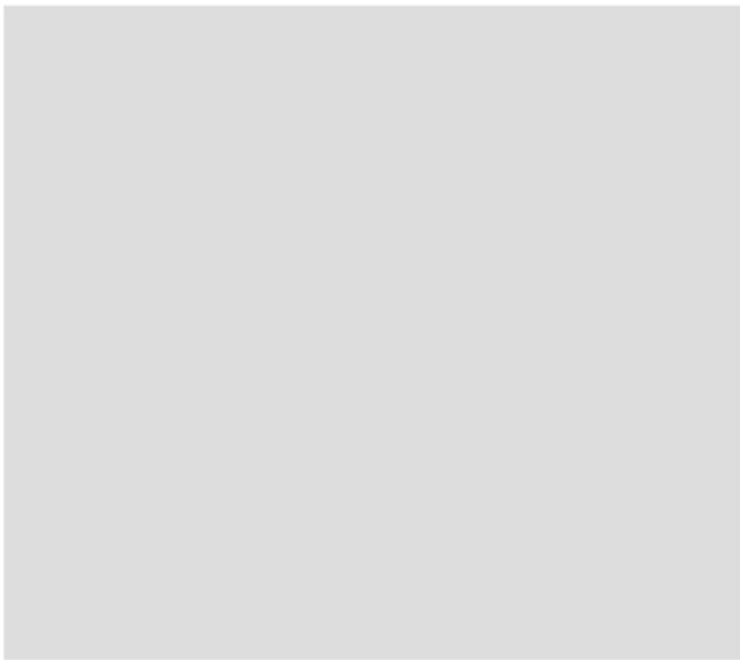
- Tri-silver 15 metal sputtering layers that provides ultimate heat rejection results
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- Reducing air-con load and energy consumption significantly
- 99%UV block and high IR reflection to protect skin and eyes and furniture fading
- Added protection against accidental glass breakage to avoid injury
- Low interior reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Neutral soft color tone to reduce discomfort glare

Suitable applications: Luxurious residential villas, Luxurious hotel, Executive commercial buildings, Other types of buildings



Z40

Visible Light Transmittance %	40
Visible Light Reflectance(Ext.) %	6
Visible Light Reflectance(Int.) %	7
Ultraviolet Blocked %	99
Shading Coefficient %	0.61
IR Rejection %	94
Total Solar Energy Rejected %	69
Thickness(mil)	3
Warranty	10 Years



Z40

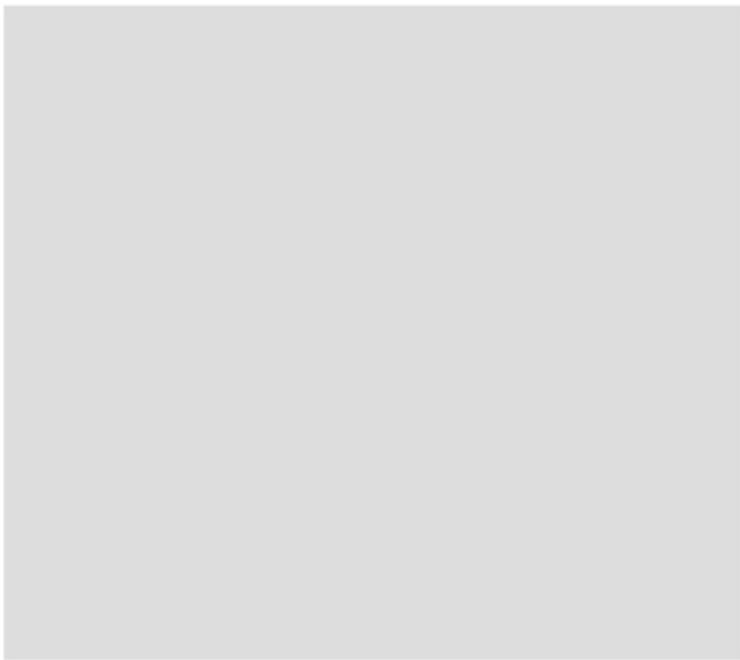
- Tri-silver 15 metal sputtering layers that provides ultimate heat rejection results
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- Reducing air-con load and energy consumption significantly
- 99%UV block and high IR reflection to protect skin and eyes and furniture fading
- Added protection against accidental glass breakage to avoid injury
- Low interior reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Neutral soft color tone to reduce discomfort glare

Suitable applications: Luxurious residential villas, Luxurious hotel, Executive commercial buildings, Other types of buildings



S30

Visible Light Transmittance %	30
Visible Light Reflectance(Ext.) %	6
Visible Light Reflectance(Int.) %	7
Ultraviolet Blocked %	99
Shading Coefficient %	0.61
IR Rejection %	60
Total Solar Energy Rejected %	50
Thickness(mil)	3
Warranty	10 Years



S30

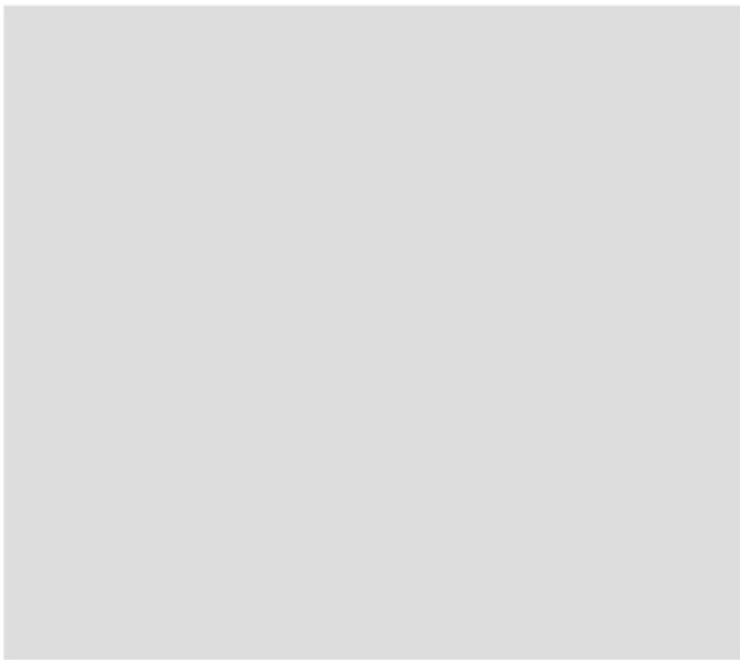
- Sputtering metal layer offers high heat rejection to improve indoor comfort
- Reducing air-con load and energy consumption greatly
- 99%UV block and high IR reflection to protect skin and eyes and furniture fading
- Added protection against accidental glass breakage to avoid injury
- Neutral soft color tone to reduce discomfort glare
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches

Suitable applications: Commercial buildings, Public buildings,
Residential buildings, Other types of buildings



T15

Visible Light Transmittance %	40
Visible Light Reflectance(Ext.) %	6
Visible Light Reflectance(Int.) %	7
Ultraviolet Blocked %	99
Shading Coefficient %	0.61
IR Rejection %	94
Total Solar Energy Rejected %	69
Thickness(mil)	3
Warranty	10 Years



T15

- Tri-silver 15 metal sputtering layers that provides ultimate heat rejection results
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- Reducing air-con load and energy consumption significantly
- 99%UV block and high IR reflection to protect skin and eyes and furniture fading
- Added protection against accidental glass breakage to avoid injury
- Low interior reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Neutral soft color tone to reduce discomfort glare

Suitable applications: Luxurious residential villas, Luxurious hotel,
Executive commercial buildings, Other types of buildings



WT20

Visible Light Transmittance %	25
Visible Light Reflectance(Ext.) %	25
Visible Light Reflectance(Int.) %	26
Ultraviolet Blocked %	99
Shading Coefficient %	0.47
IR Rejection %	77
Total Solar Energy Rejected %	62
Thickness(mil)	4
Warranty	10 Years



WT20

- Tri-silver 15 metal sputtering layers that provides ultimate heat rejection results
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- Reducing air-con load and energy consumption significantly
- 99%UV block and high IR reflection to protect skin and eyes and furniture fading
- Added protection against accidental glass breakage to avoid injury
- Low interior reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Neutral soft color tone to reduce discomfort glare

Suitable applications: Luxurious residential villas, Luxurious hotel, Executive commercial buildings, Other types of buildings

真正隔热 中国智造



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