



Zonling Automotive Solar and Safety Window Films

Solar Control / UV Block / Safety&Privacy



Zonling Window Films

Zonling is a world-leading window film manufacturer founded in China. It's parent company Dalian Allied Nanotech is the manufacture member of International Window Film Associations (IWFA). With its advanced vacuum sputtering and precision coating facilities and 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.



State-of-the-art Manufacturing Technology

Leading-edge Vacuum Multi-layer Sputtering Equipment

Tailor-made from Germany, Zonling has the most advanced multi-layer Sputtering equipment on the world, which is capable to produce all kinds of high end solar control films.



High Precision Coating and Laminating Production Line

The world's advanced coating and laminating lines, it can achieve the high optical effect of uniformity and compact structure, ensure more clear and natural, lasting and stable quality.



Rigorous Performance Testing

Zonling conducts rigorous performance testing to ensure our products perform as expected in various conditions such as UV weathering , high-low temperature , acid and alkali etc.



Class 100 Cleanliness Control

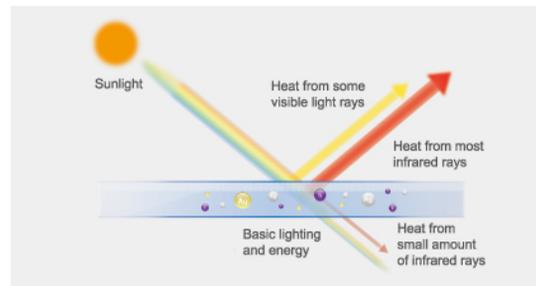
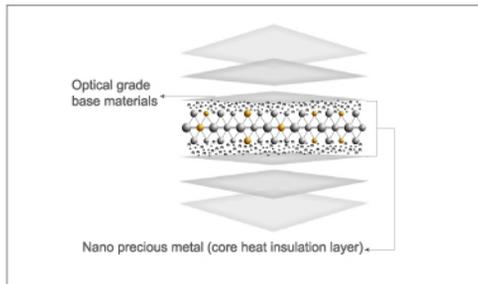
Zonling has high precision air physical parameter control and class 100 cleanliness control, to minimize the impurity particles and greatly enhance the purity of the film.



Proprietary Core Technology

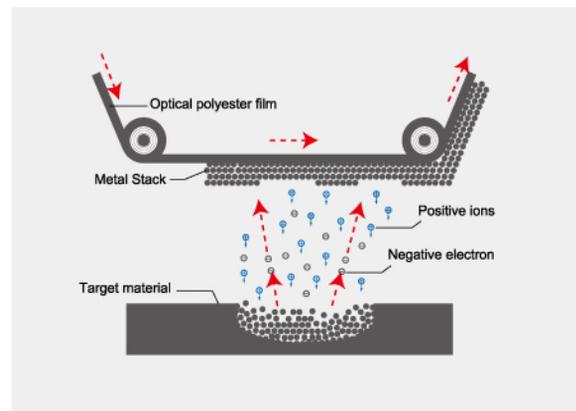
● Smart Micro-electron Light and Heat Separation Technology

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.



Manufacturer Member of International Window Film Association



**INTERNATIONAL
WINDOW FILM
ASSOCIATION.**

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Find a Manufacturer

Find a Distributor

Find a Supplier

Window Film Manufacturers

The following manufacturers are members of the IWFAS and generously support it's mission to educate consumers and professionals alike, on the many benefits of window film. Their care and expansion of the industry is commendable. Please support them in turn by visiting the information about their products.

- **3M, Renewable Energy Division**
 - www.3m.com/windowfilms
 - Billy Felt
 - wfcp@3m.com
 - 651-736-1549
- **Eastman Chemical Company Advanced Materials - Performance Films**
 - www.3m.com
 - Lisa Winckler
 - lisa.winckler@eastman.com
 - 276-627-3457
 - 4210 The Great Road, Fedale, VA 24089
- **Avery Dennison**
 - www.averydennison.com
 - Sergio Shmilovitch
 - sergio.shmilovitch@eu.averydennison.com
 - 800-660-5556
 - 4010 La Reunion Parkway, Suite 100, Dallas, TX 75212
- **Johnson Laminating & Coating Inc.**
 - www.johnsonlaminating.com
 - Ken Vickers
 - ken@johnsonlaminating.com
 - 310-435-4029, 800-321-2104
 - 20655 Annabea Avenue, Carson, CA 90746
- **KDX Optical Material Co., Ltd**
 - www.kdxoptical.com
 - Lily Zhao
 - lilyzhao@kdxoptical.com
 - New Material Industrial Park
 - No 85 Chenggang Rd.
 - Zhangjiagang City, Jiangsu Province, China 215534
- **Madico Window Films**
 - www.madico.com
 - Jim Black
 - jblack@madico.com
 - 901-236-0515
 - 2630 Fairfax Avenue S, St. Petersburg, FL 33712
- **Saint-Gobain Solar Gard LLC**
 - www.solargard.com
 - Lawrence Constant
 - lawrence.constant@stg-sg.com
 - 658-614-1293
 - 4540 Viewridge Avenue, San Diego, CA 92123
- **Dalian Allied Nanotech Company, LTD**
 - www.zonling.com
 - Zhang Jinwei
 - zhangjinwei@zonling.com
 - No.66-1, Yinxing Road
 - Huayuankou Economic Area
 - Dalian, Liaoning China



- **Dalian Allied Nanotech Company, LTD**
- www.zonling.com
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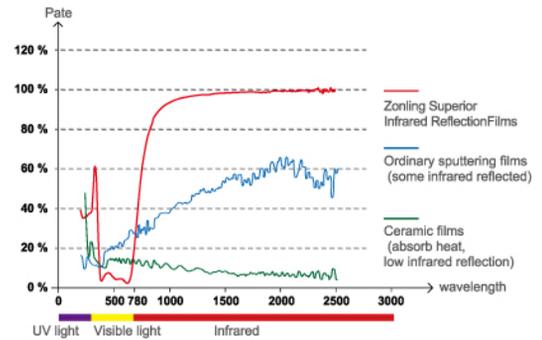


Superior Infrared Heat Reflection Films

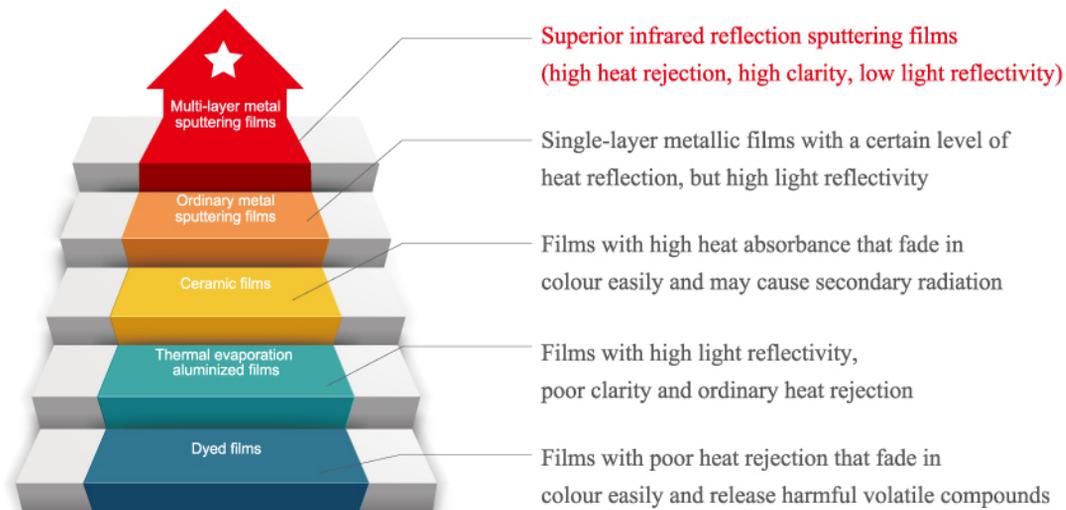
53% of the heat from sunlight come from infrared rays (780nm-2,500nm) and most of the heat from infrared rays are concentrated in the near infrared (780nm-1,400nm). The reflective performance within this wavelength shows how good a window film product is.

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

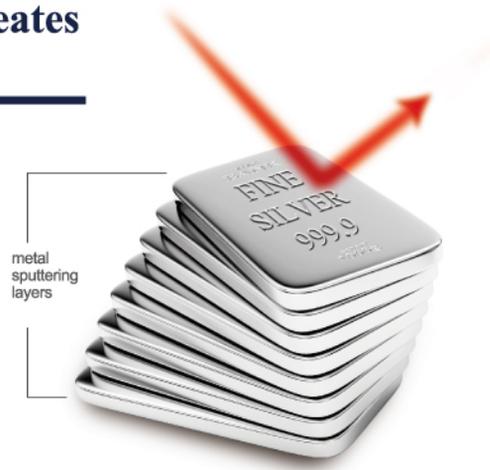


Evolutions of Window Film Technology



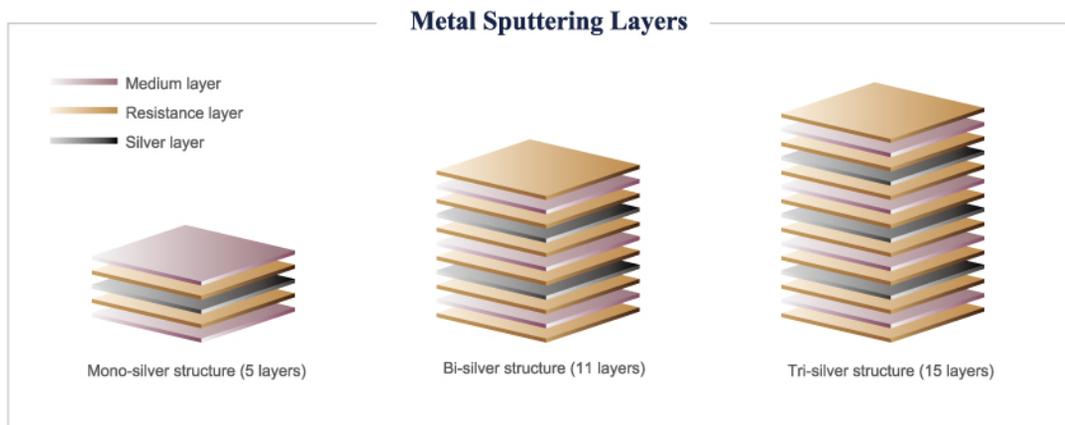
Mutli-layer Precious Metals Creates Extraordinary Heat Rejection

With leading-edge sputtering technology, up to 15 layers precious metals is built into micro nano particles and deposited onto optical film. The unique high reflection properties of precious metal particles give a thin layer of film with extremely high heat rejection.



Professional Customised Design

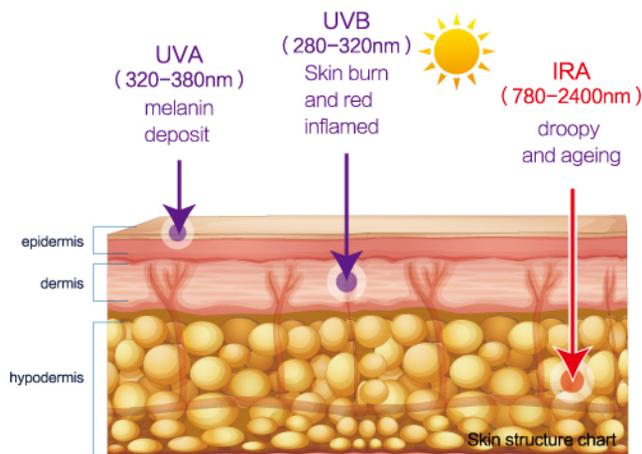
Zonling has a proprietary window film design capability that can produce films with different attributes using sputtering technology to achieve transparency, reflectivity and insulation combinations that cater to customers' needs. In addition, film thickness, colour and other product specifications are fully customisable as well.



True Protection of Skin = UV Block + High IR Rejection



Ultraviolet rays can cause a lot of damage to the skin and eyes, which can cause melanin deposition and even burns. In fact, the sun damage to the skin is more than ultraviolet, near infrared (IRA) can penetrate into the skin inside even reaching the underlying tissue and accelerate skin droopy and ageing.



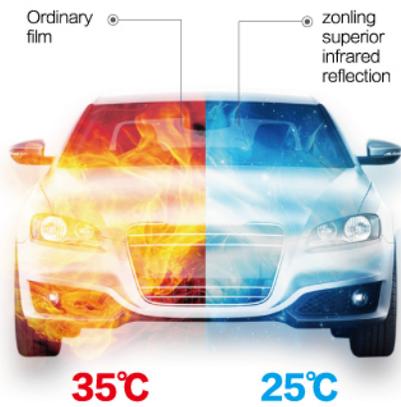
	UV block (320-380nm)	infrared reflectance (780-2400nm)
Dyed films	low easy decline	no
Ceramic films	high	Almost no
Ordinary sputtering films	high	low
zonling superior infrared reflection	high	high

UNEQUALLED COMFORT OF DRIVING EXPERIENCE



Optimal Heat Rejection and Comfort

Providing comfort with most infrared reflected



Sun-resistant for Healthier Skin

True protection of skin=
UV block +high IR rejection



ENJOY EVERYDAY SUNSHINE FREELY



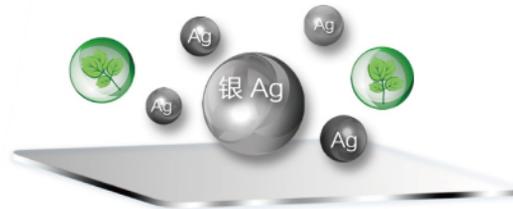
Superior Clarity

Optical base material to ensure optimal visibility



Enjoy Safe Air

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





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



Zonling Special Safety Insulation Film

Zonling Special Safety Insulation Film

An Upgrade for 360 Degree Protection of Your Car

A Special Film of 6mil Thickness Installed on your vehicle to enhance the safety

Increases strength of glass by 8 times

Initial application of skylight safety film at home and abroad

Magnetron Technology of Double Silver Precious Metals



The safety performance of the glass can be greatly improved by choosing films that are thicker (5 mil safety thickness), high tensile strength and high viscose absorbing energy. This can block burst shock waves, increase glass toughness and prevent the glass from splashing which can cause injury to passengers of the vehicle.



Hidden danger of broken glass

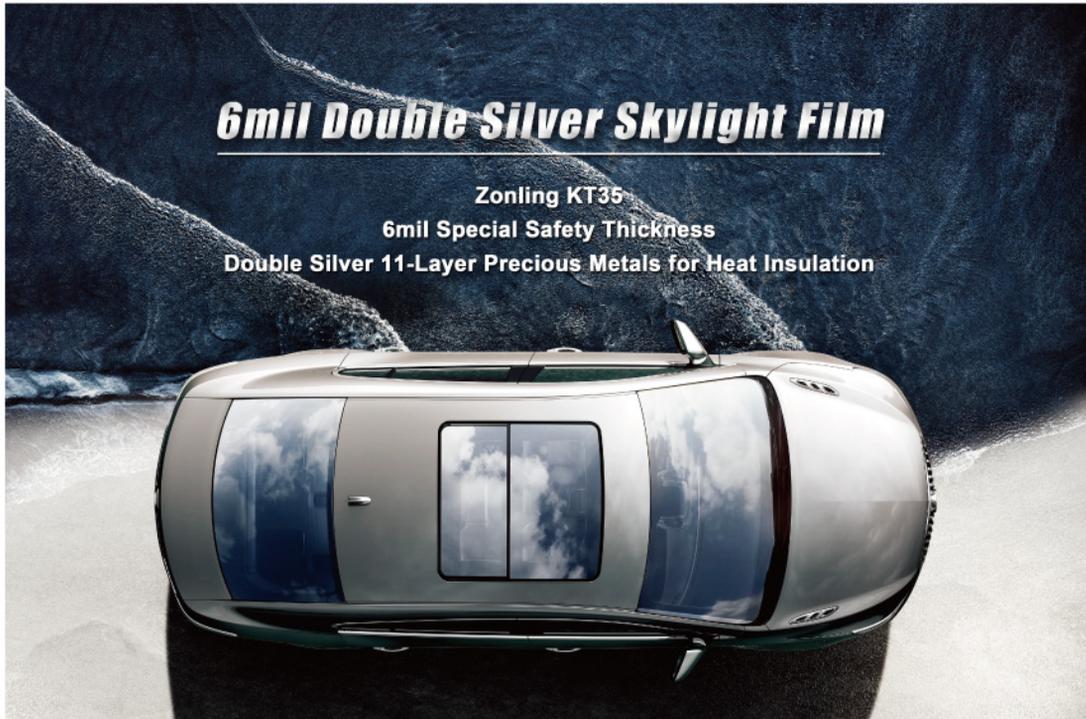


Hidden danger of glass fragmentation in some areas



The broken glass is firmly fixed on the membrane to eliminate the hidden danger of injury

6mil Double Silver Skylight Film



Using 6 mil Thickness with a special high strength base material, it is an extraordinary strong protection barrier and eliminates hidden dangers. The safety performance index of Zonling Double Silver Skylight Film meets the national standards of USA (ANSI Z97.1Cat2) and the European Union (EN12600). The double silver 11 layer precious metal magnetron insulation technology helps to block out maximum heat. Rejecting 99% ultraviolet rays, which protects the skin, prevent fading and ageing of the car's interior. The external applications helps protect the glass from scratches and other damages that may be caused externally.

Eliminating The Hidden Dangers, Increases Safety and is Priceless



High-altitude
falling objects



Rockfall in
Mountainous Areas

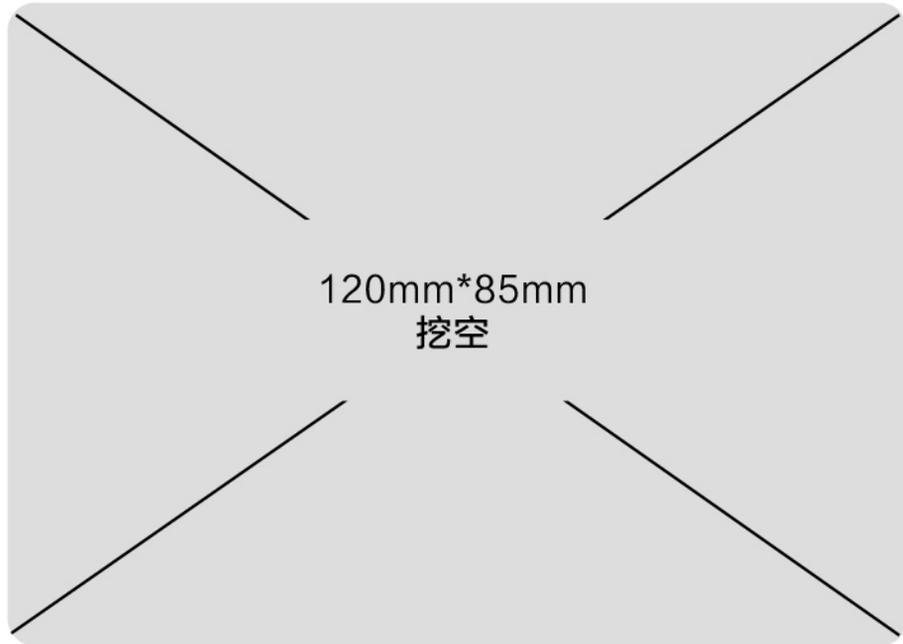


High Speed
Flying Stone



typhoon
disaster

KX70

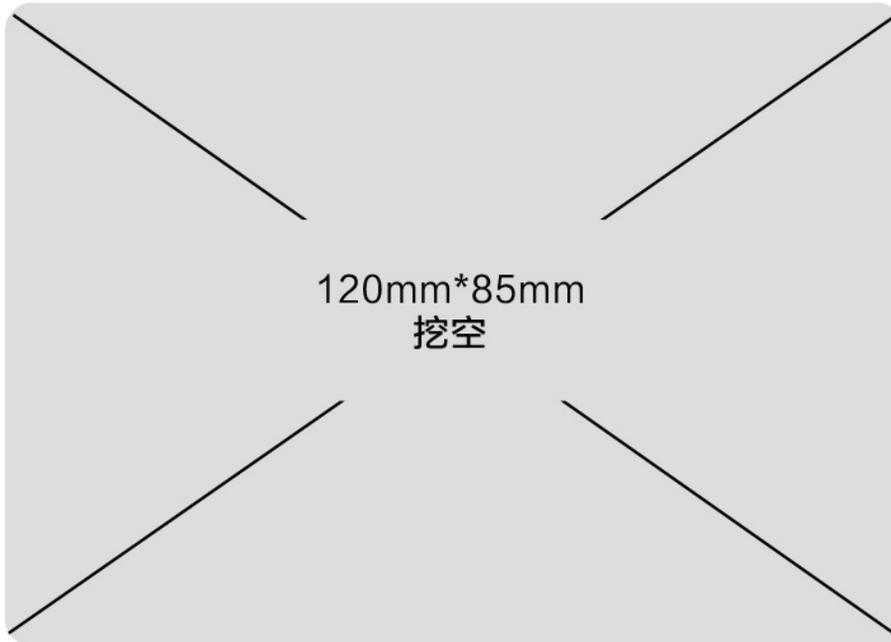


KX70 Tri-silver sputtering

Visible Light Transmittance %	71
Visible Light Reflectance(Ext./Int.) %	12 / 11
Ultraviolet Blocked %	99
IR Rejection %	92
Total Solar Energy Rejected %	60
Haze Ratio	<1
Thickness(mil)	5
Warranty(yrs)	10



KX70



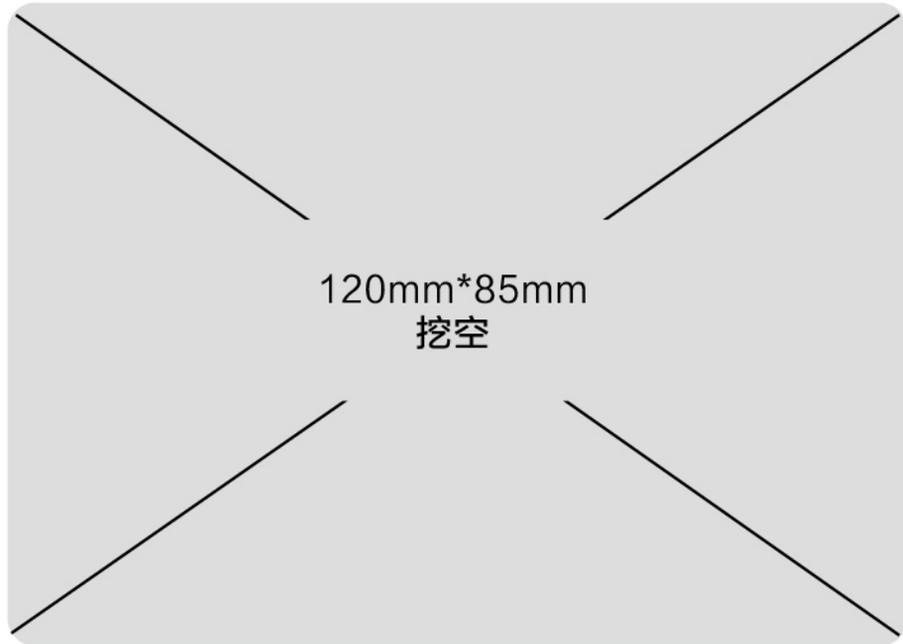
- Tri-silver 15 metal sputtering layers that provides ultimate heat rejection results
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Invisible safety barrier to prevent injury from glass shatter
- Optical level clarity that ensure optimal visibility
- Prevent glare from the sun and headlights from blinding you
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches
- Exterior purple reflection representing nobility and royalty



KX70 (Tri-silver sputtering)



G70

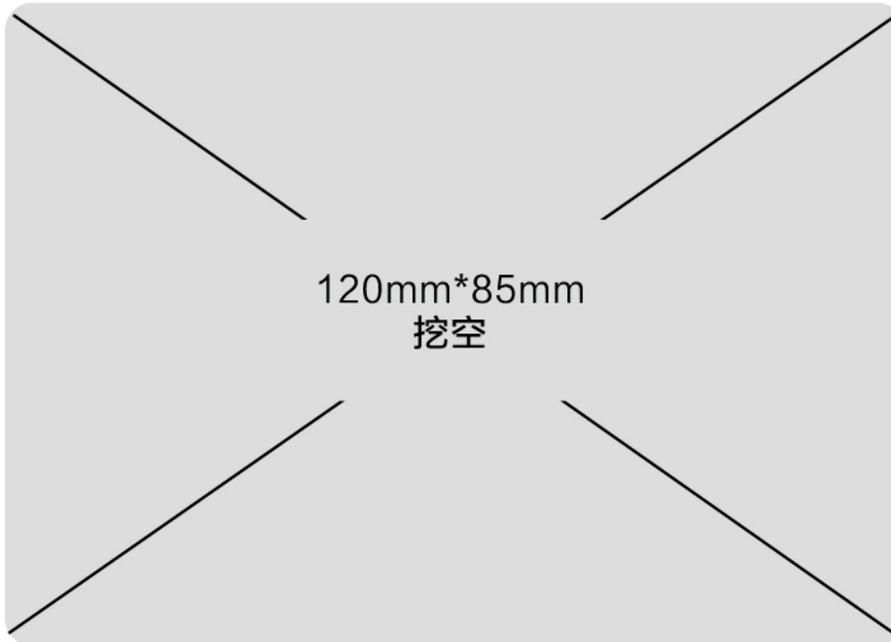


G70 Bi-silver sputtering

Visible Light Transmittance %	72
Visible Light Reflectance(Ext./Int.) %	10 / 9
Ultraviolet Blocked %	99
IR Rejection %	90
Total Solar Energy Rejected %	57
Haze Ratio	<1
Thickness(mil)	3
Warranty(yrs)	10



G70



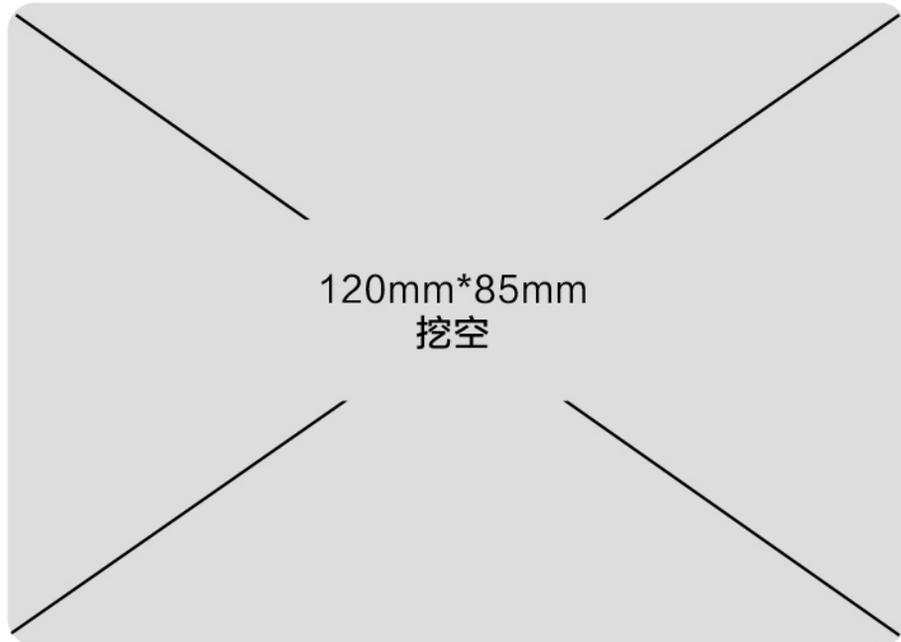
- Bi-silver 11 metal sputtering layers that provides perfect heat rejection performance
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Invisible safety barrier to prevent injury from glass shatter
- Optical level clarity that ensure optimal visibility
- Prevent glare from the sun and headlights from blinding you
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches
- Anti blue light to protect your eyes



G70 (Bi-silver sputtering)



A50

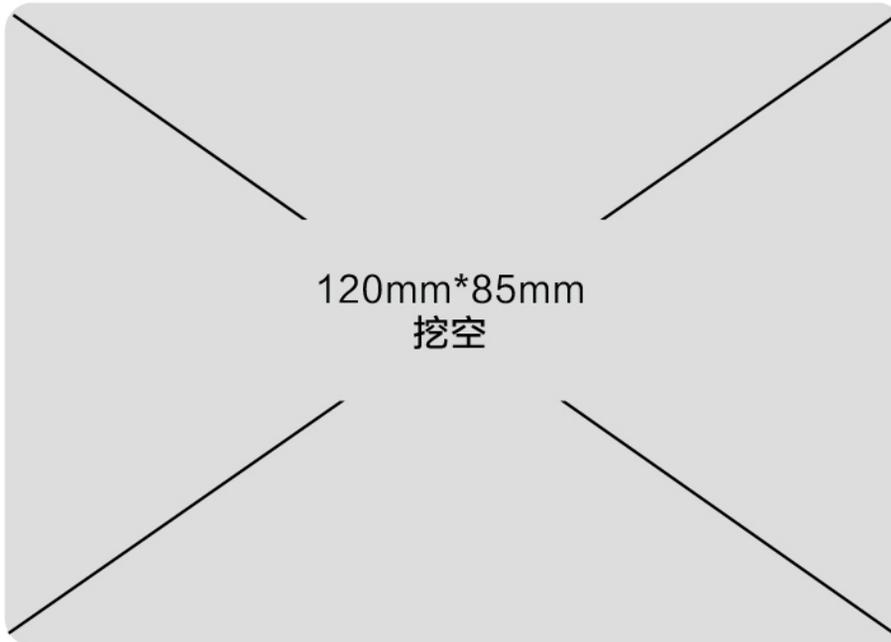


A50 Bi-silver sputtering

Visible Light Transmittance %	52
Visible Light Reflectance(Ext./Int.) %	13 / 8
Ultraviolet Blocked %	99
IR Rejection %	86
Total Solar Energy Rejected %	57
Haze Ratio	<1
Thickness(mil)	3
Warranty(yrs)	10



A50



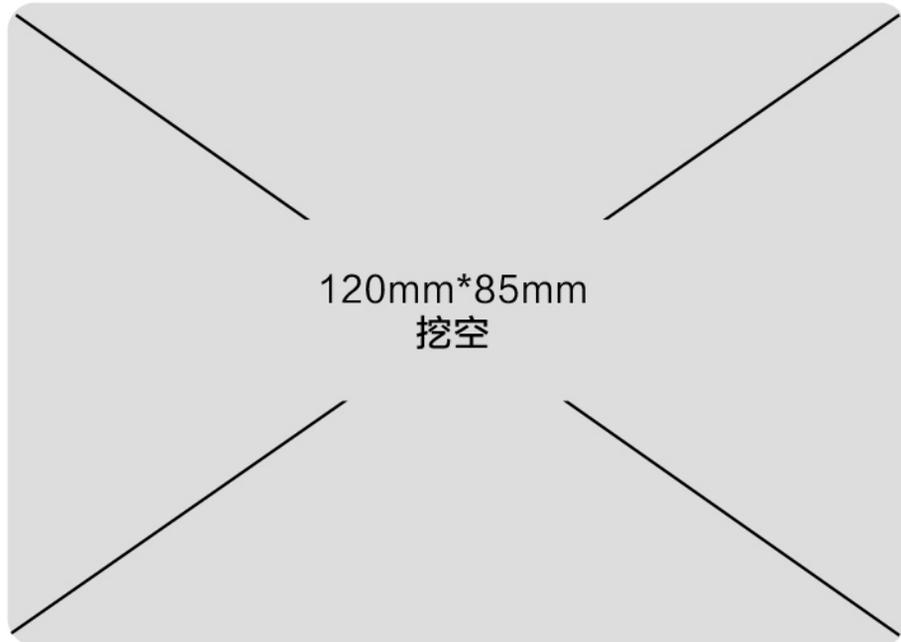
- Bi-silver 11 metal sputtering layers that provides perfect heat rejection performance
- Industry leading 'spectral selectivity' film to keep the heat out while letting the light in
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Invisible safety barrier to prevent injury from glass shatter
- Optical level clarity that ensure optimal visibility
- Prevent glare from the sun and headlights from blinding you
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches



A50 (Bi-silver sputtering)



M70

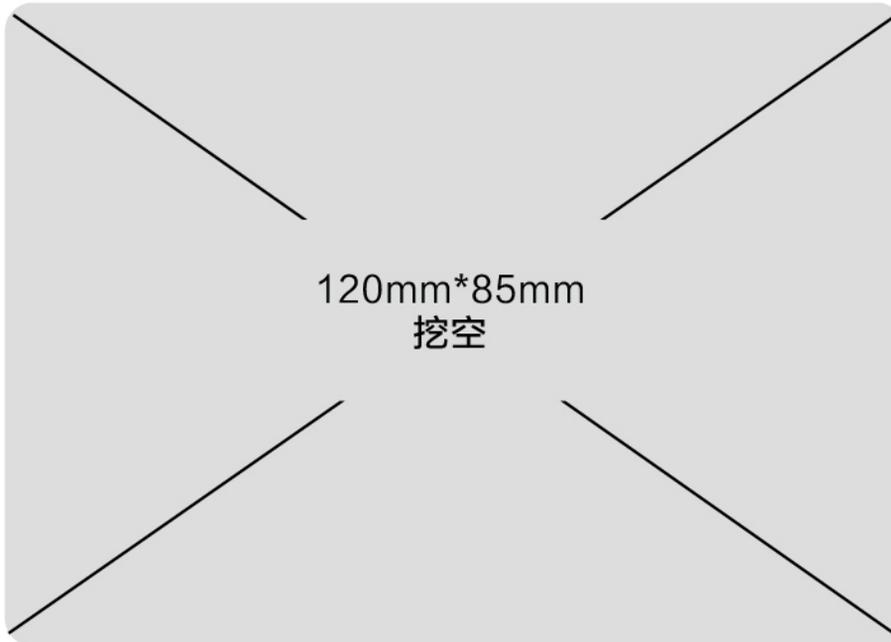


M70 Mono-silver sputtering

Visible Light Transmittance %	70
Visible Light Reflectance(Ext./Int.) %	12 / 11
Ultraviolet Blocked %	99
IR Rejection %	90
Total Solar Energy Rejected %	55
Thickness(mil)	3
Warranty(yrs)	10



M70



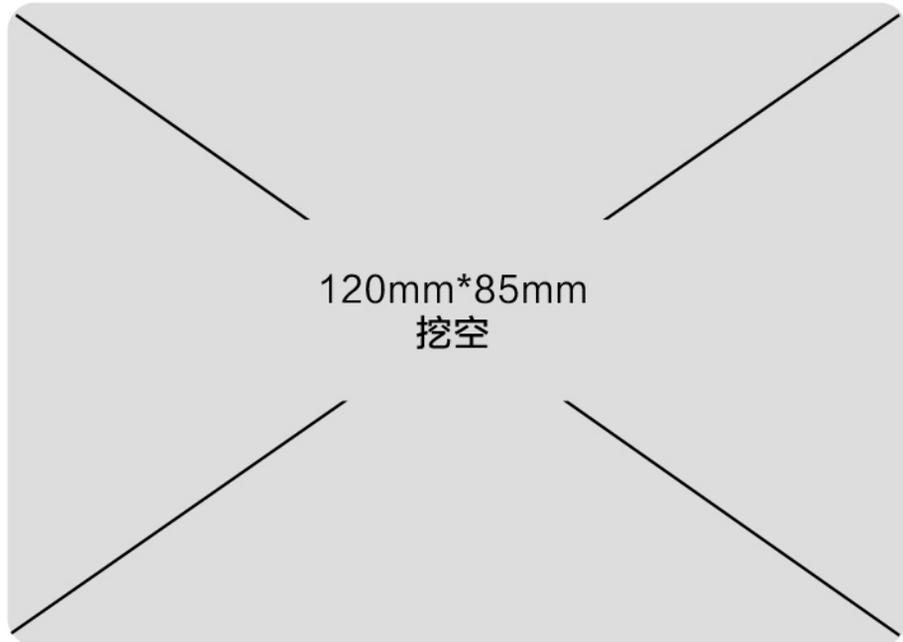
- Mono-silver 5 metal sputtering layers that provides optimal performance
- High heat rejection results in improved comfort
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Invisible safety barrier to prevent injury from glass shatter
- Lower visible reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches



M70 (Mono-silver sputtering)



Mk30

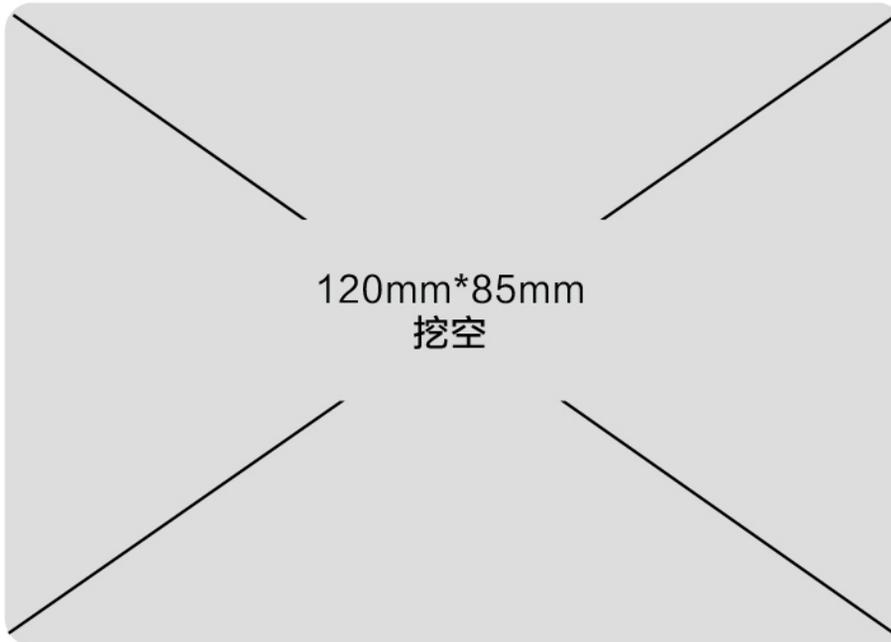


Mk30 Metalized sputtering

Visible Light Transmittance %	28
Visible Light Reflectance(Ext./Int.) %	7 / 6
Ultraviolet Blocked %	99
IR Rejection %	72
Total Solar Energy Rejected %	55
Thickness(mil)	3
Warranty(yrs)	5



Mk30



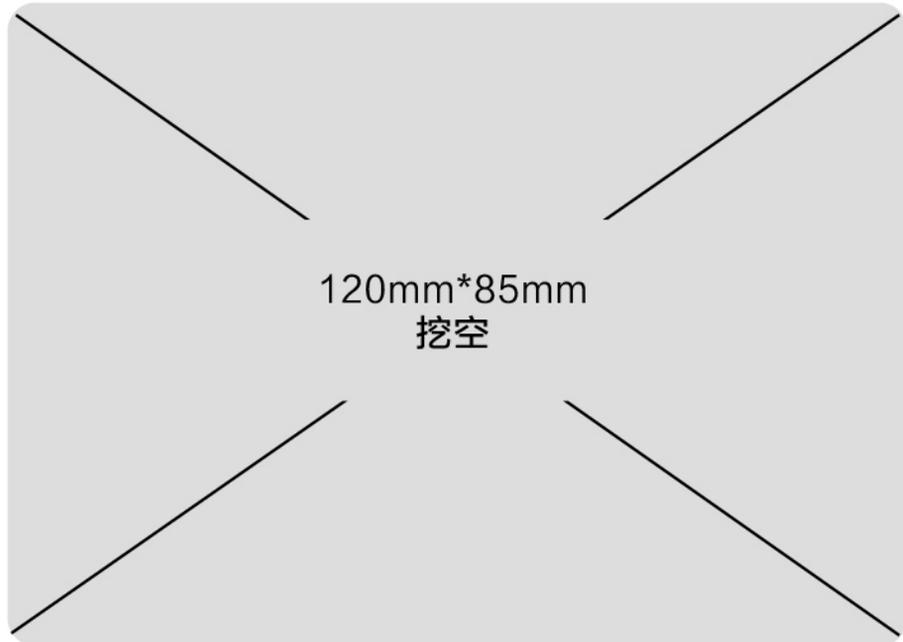
- Sputtering metal layer offers high heat rejection to improve indoor comfort
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Added protection against accidental glass breakage to avoid injury
- Guaranteed against fading or color change
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches



Mk30 (Metalized sputtering)



Mk15

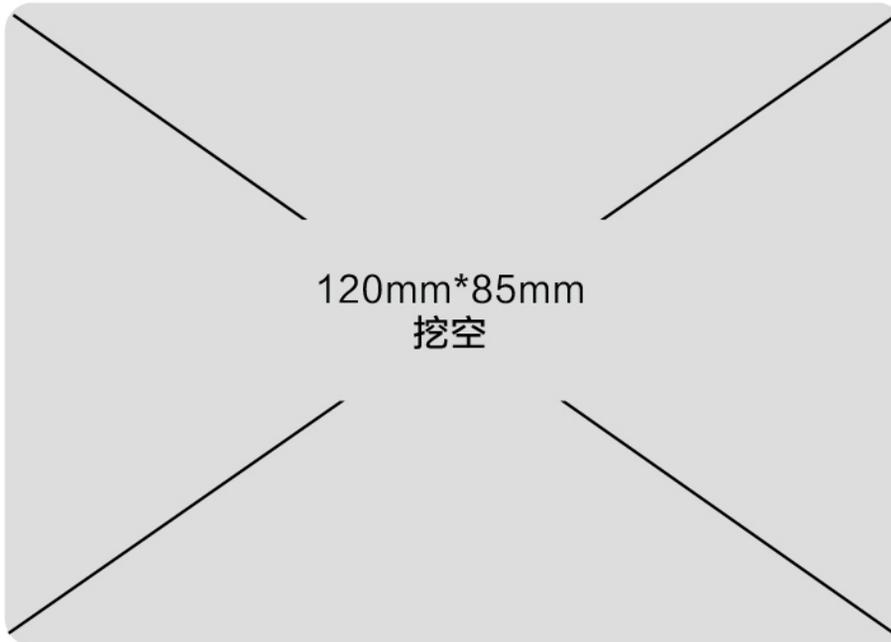


Mk15 Metalized sputtering

Visible Light Transmittance %	16
Visible Light Reflectance(Ext./Int.) %	13 / 7
Ultraviolet Blocked %	99
IR Rejection %	85
Total Solar Energy Rejected %	66
Thickness(mil)	3
Warranty(yrs)	5



Mk15



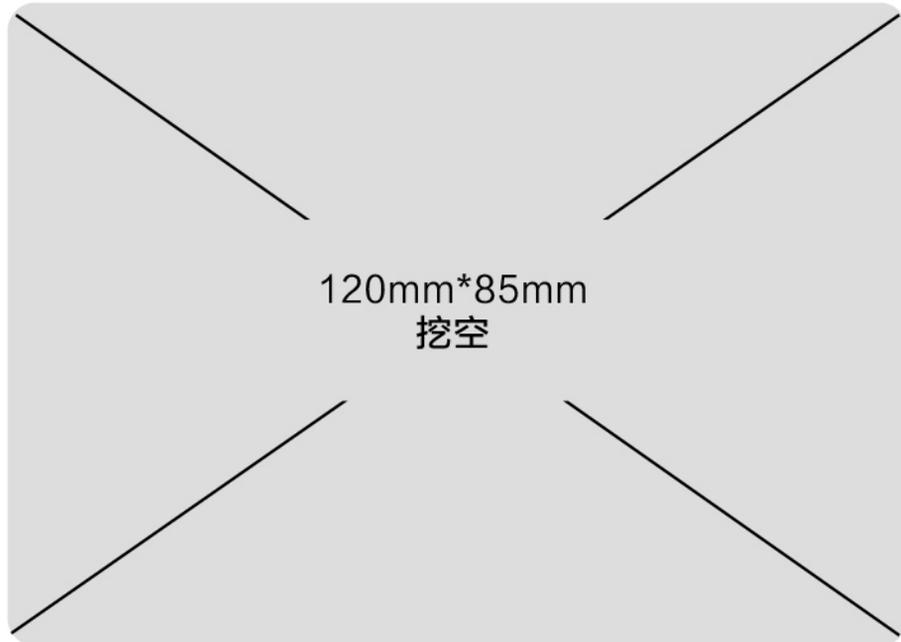
- Sputtering metal layer offers high heat rejection to improve indoor comfort
- 99%UV block and high IR reflection to protect skin and eyes and car interior fading
- Added protection against accidental glass breakage to avoid injury
- Guaranteed against fading or color change
- Offering increased privacy while maintaining views from the interior
- Made with green adhesive with no dye or other harmful volatile compounds
- High surface resistance against scratches



Mk15 (Metalized sputtering)



R70

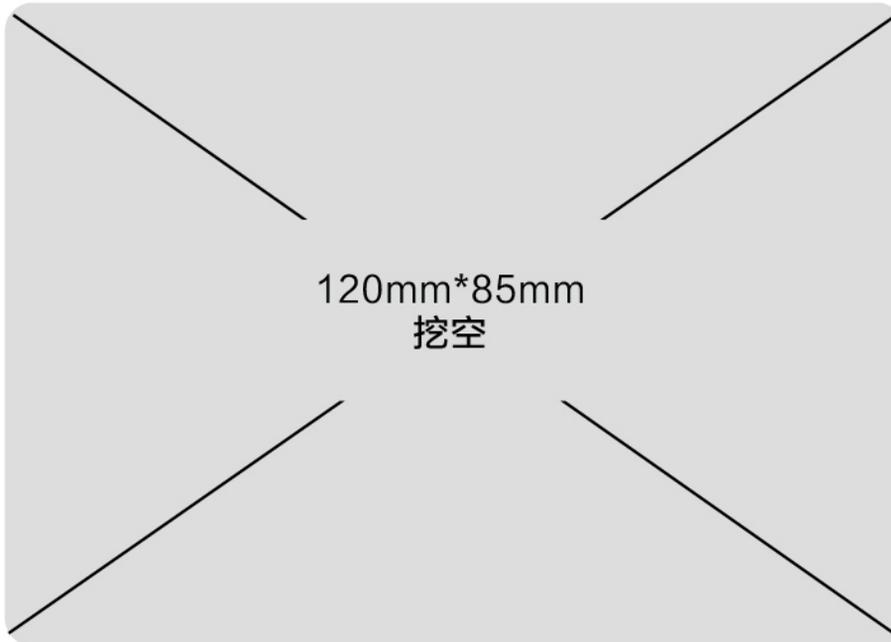


R70 Mono-silver sputtering

Visible Light Transmittance %	82
Visible Light Reflectance(Ext./Int.) %	11 / 11
Ultraviolet Blocked %	99
IR Rejection %	45
Total Solar Energy Rejected %	27
Thickness(mil)	2
Warranty(yrs)	5



R70



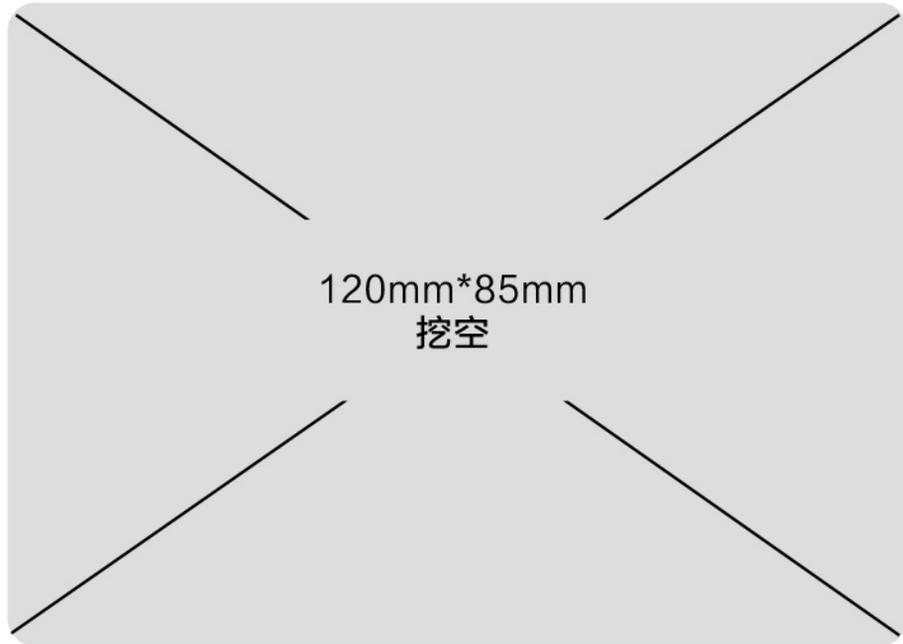
- Sputtering metal layer offers high heat rejection to improve indoor comfort
- High heat rejection results in improved comfort
- 99%UV block to protect skin and eyes and car interior fading
- Invisible safety barrier to prevent injury from glass shatter
- Lower visible reflectance maintains views to the outside
- Optical level clarity that ensure optimal visibility
- Prevent glare from the sun and headlights from blinding you
- High surface resistance against scratches



R70 (Mono-silver sputtering)



R30

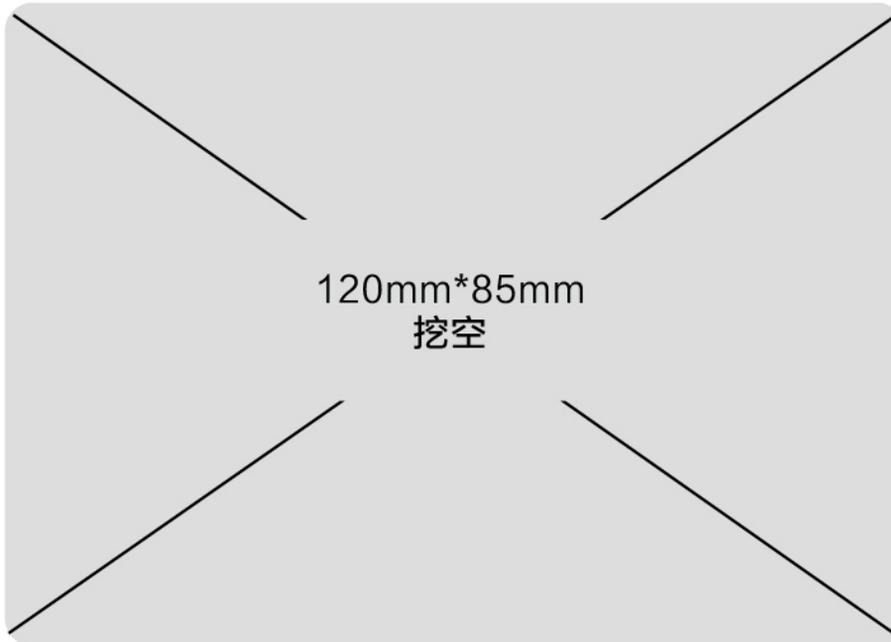


R30 Metalized sputtering

Visible Light Transmittance %	33
Visible Light Reflectance(Ext./Int.) %	7 / 8
Ultraviolet Blocked %	99
IR Rejection %	72
Total Solar Energy Rejected %	49
Thickness(mil)	2
Warranty(yrs)	5



R30



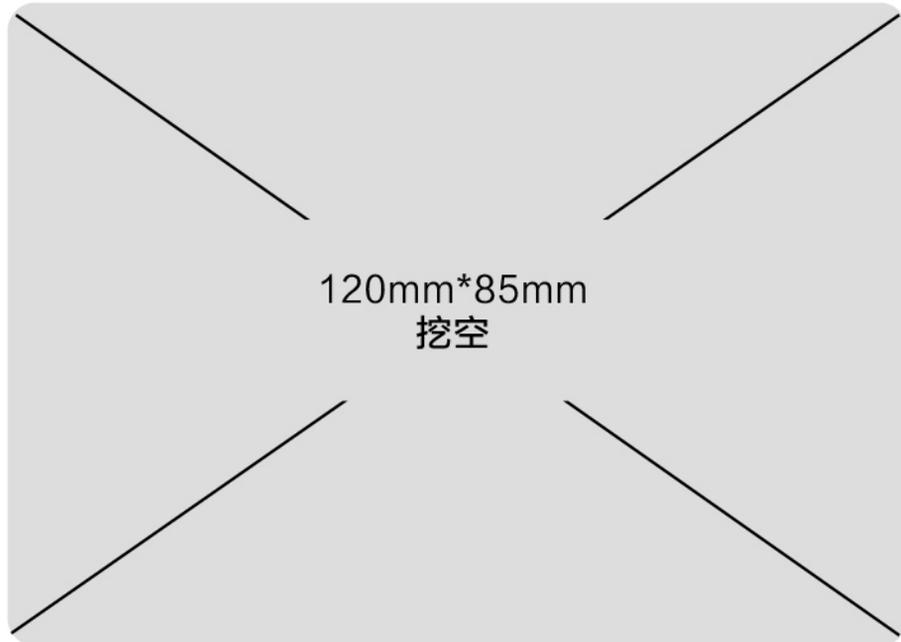
- Sputtering metal layer offers high heat rejection to improve indoor comfort
- 99%UV block to protect skin and eyes and car interior fading
- Added protection against accidental glass breakage to avoid injury
- Offering increased privacy while maintaining views from the interior
- Classic smoke grey tint
- High surface resistance against scratches



R30 (Metalized sputtering)



R15

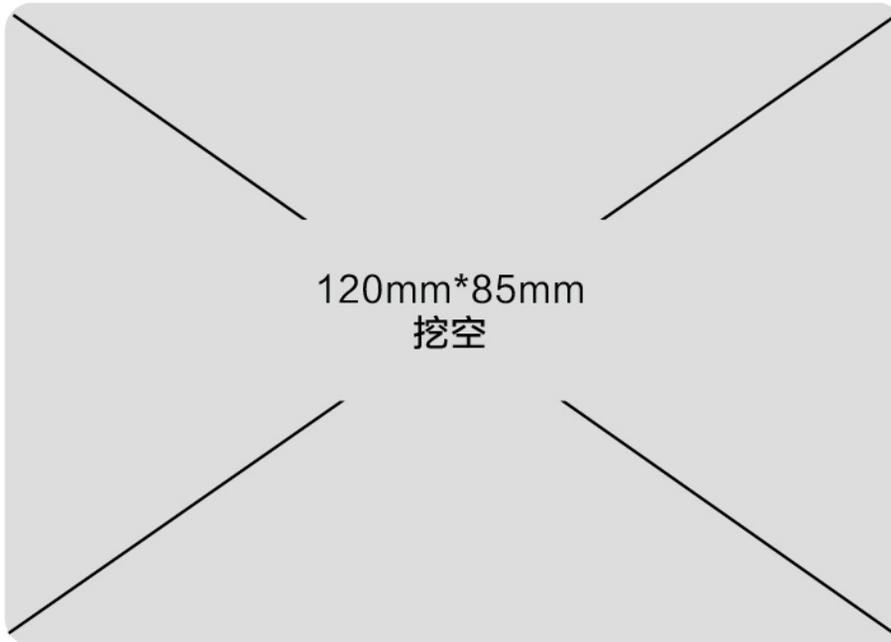


R15 Metalized sputtering

Visible Light Transmittance %	18
Visible Light Reflectance(Ext./Int.) %	7 / 7
Ultraviolet Blocked %	99
IR Rejection %	85
Total Solar Energy Rejected %	63
Thickness(mil)	2
Warranty(yrs)	5



R15



- Sputtering metal layer offers high heat rejection to improve indoor comfort
- 99%UV block to protect skin and eyes and car interior fading
- Added protection against accidental glass breakage to avoid injury
- Offering increased privacy while maintaining views from the interior
- Classic smoke grey tint
- High surface resistance against scratches



R15 (Metalized sputtering)



STAY COOL WITH ZONLING FILMS



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