

# THE ULTIMATE **HIGH-PERFORMANCE** WINDOW FILM

## **HEAT** **SHIELD** **SERIES**

Offering 99% infrared heat rejection thanks to multi-layer nanoparticle technology, Heat Shield combines a cool look with extreme performance. Let Heat Shield keep you comfortable and protected no matter the weather.





## **HEAT SHIELD SERIES**

**THE PINNACLE OF HIGH PERFORMANCE TINT**



### **Mission**

True innovation in the window film industry is what we aim to inspire. When compared to other window film on the market, we want to be the market leader in terms of product innovation, quality, and customer service while also giving our customers the best value.

### **The Assurance**

The Heat Shield series of window films are backed by a trustworthy warranty programme and are guaranteed to meet better criteria than any other window film. Customers and dealers are provided with extended coverage under our 10-year warranty policy.



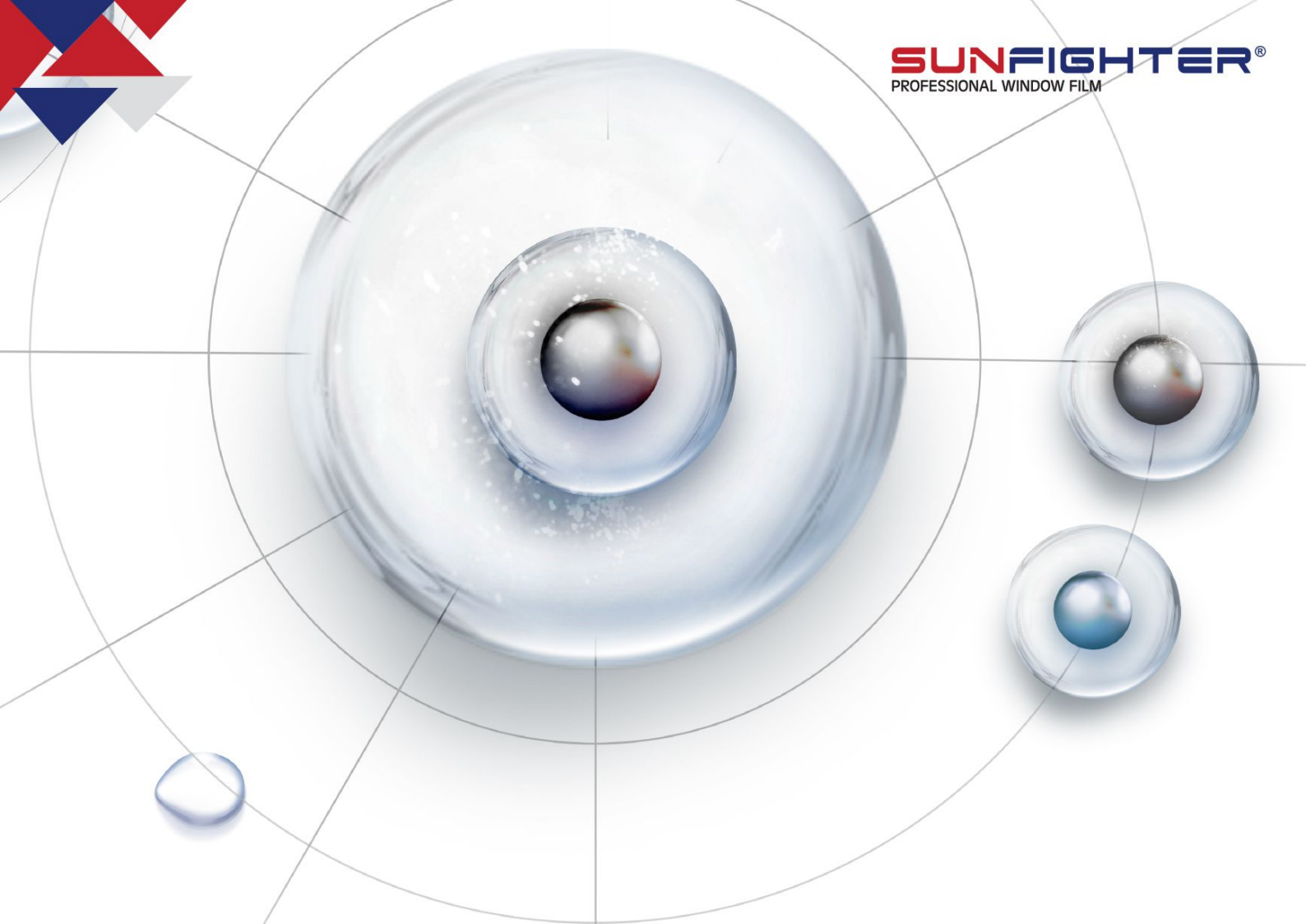
## **Who We Are**

Sun-fighter has been selling the best professional grade window films ever since it was founded. The Sun-fighter brand is a top option for professional dealers and installers throughout Asia Pacific and the rest of the world because of its commitment to quality, use of cutting-edge technology, and practical understanding of the business. Sun-fighters are in a different league.

Sun-fighter is committed to working with a network of local distributors who have knowledge and a commitment to providing their dealer clients with window film solutions that are both reasonably priced and of professional quality. Along with high-quality products, Sun-fighter also offers aggressive marketing strategies and dependable warranties in an effort to win over distributors, dealers, and ultimately retail customers.

## **Sun-Fighter Window Film's Benefits**

Few goods on the market today provide such a vast array of consumer benefits at such an amazing price. Sun-fighters have a lot of advantages, whether they are used in the house, business, or car.



## **What Is Nano-Technology / Nano-tinting Technology?**

Nano technology window film utilizes cutting edge technology to imbed nanoparticles into multiple layers of film. This technology delivers a window tint with exceptional performance, blocking up to 99% of infrared heat and 99% of harmful ultraviolet rays.

This technology utilizes smaller than microscopic particles as building blocks that reacts with the sun's heat. This is a cutting edge technology which imbeds nano particles into multiple layers of film, blocking the harmful UV rays more effectively and therefore provide tinting benefits better.

This makes it possible to create extremely capable high performance films to the most exact and demanding specifications.

This technology delivers a window tint with exceptional performance, blocking up to 99% of infrared heat and 99% of harmful ultraviolet rays. (Both UV-A and UV-B).



## **Benefits of Nano-Tinting Technology**

Nano technology window film utilizes cutting edge technology to imbed nanoparticles into multiple layers of film. This technology delivers a window tint with exceptional performance, blocking up to 99% of infrared heat and 99% of harmful ultraviolet rays

### **■ Non-Conductive**

Nano-tint films are non-conductive, meaning they are safe to be applied on rear windows, don't interfere with AM or FM radios, GPS, satellite radios, and other vehicle security systems that need magnetic waves to function.

### **■ Enhanced Optical Clarity**

One of the concerns of some car owners regarding tinting their vehicles is the clarity of the view once their windows are tinted. However, with nano-tint films, you can be sure that your view as the driver or passenger will not be obstructed with too much darkness, allowing you to drive more carefully and safely.

### **■ Sleek Look**

Nano-tints provide a more sophisticated look for vehicles, given its black appearance which can be a timeless and classic aesthetic for any car. Its subtle and appealing design to enhance the look of your vehicle.

### **■ More Efficient Vehicle Performance**

Nano technology film is setting the benchmark in today's automotive window film business. Nano Cool blocks up to 99% of all infrared heat. Available in 5 shades 70%, 50%, 35%, 20%, and 5%. Because of these features, your vehicle will perform better and more efficiently, saving up on fuel, and not adding burden to your engine.



# HEAT SHIELD

## 1 Multi-Layer Nanoparticle Technology

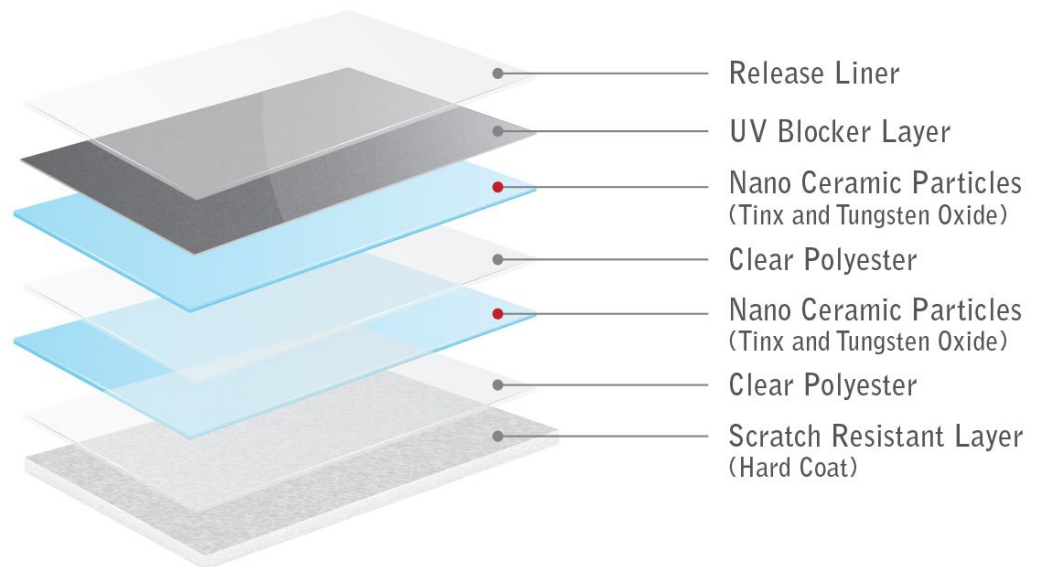
Sun-Fighter Heat Shield automotive window tint was developed with advanced durable inorganic ceramic nanoparticles. Heat Shield delivers phenomenal total solar energy rejection with long-lasting color stability. Its high optical clarity and deep graphite color tone upgrades the look of vehicles for a stunning looking and comfortable ride.

## 2 Product Application Information:

Technology	Nanotechnology Nano ceramic+IR UV Stable Dye Metal-Free
Color Tone	Dark Graphite
Construction	Weatherable
Thickness	2 Mil
Warranty	10 Years Warranty
Color Stable	Yes

## 3 Performance

Sun-Fighter Automotive Window Films adhere fast, conform to window surfaces with optimal heat-shrink capabilities, and trim clean for a secure and exacting fit. The films range in thicknesses from 1.8 to 2 mils, and provide all the benefits of window films without detracting from the exterior window and design aesthetics of the vehicle. All Sun-Fighter Automotive Window Films are developed with an acrylic scratch resistant hardcoat that creates a scratch-free installation and easy customer maintenance.



## Components of Nano Ceramic Tint

Here are the nano-ceramic film properties:

### Adhesive

The adhesive makes up the first layers of ceramic window tint that bond with the surface of your window. As with paints, sealants work better on cleaned surfaces, so it is crucial to prep your car before installing nanofilms.

### Polyurethane

Polyurethane forms the basis of the protective nature of ceramic covering. It helps block UV and resists abrasion. Polyurethane is a crucial component of your car paint and is an excellent protective film for the windows as well.

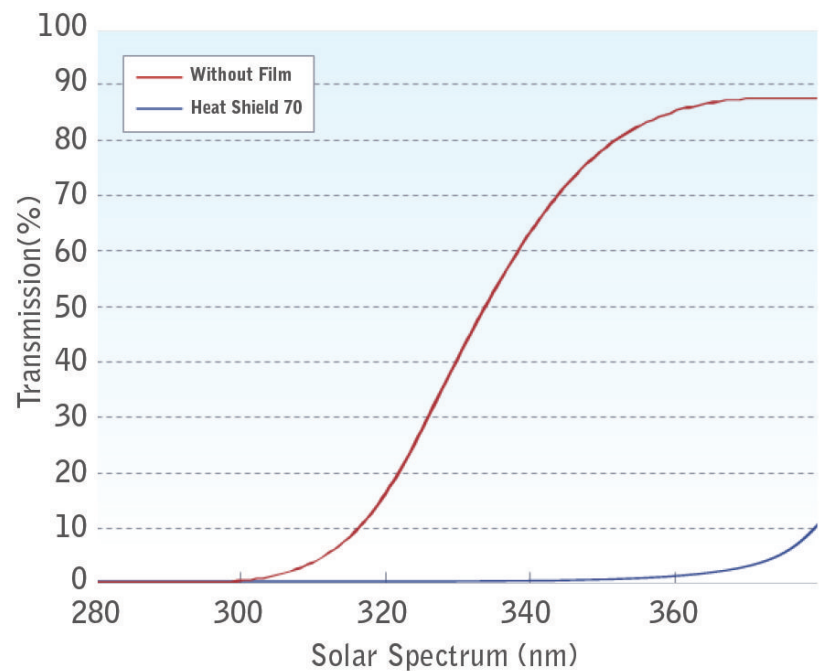
### Titanium Nitride

Titanium nitride forms an essential part of the nano-ceramic film. This is the material that makes this film more protective. Besides the protection, titanium nitride helps keep the vehicle fresh during hot days and provides a smooth finish.



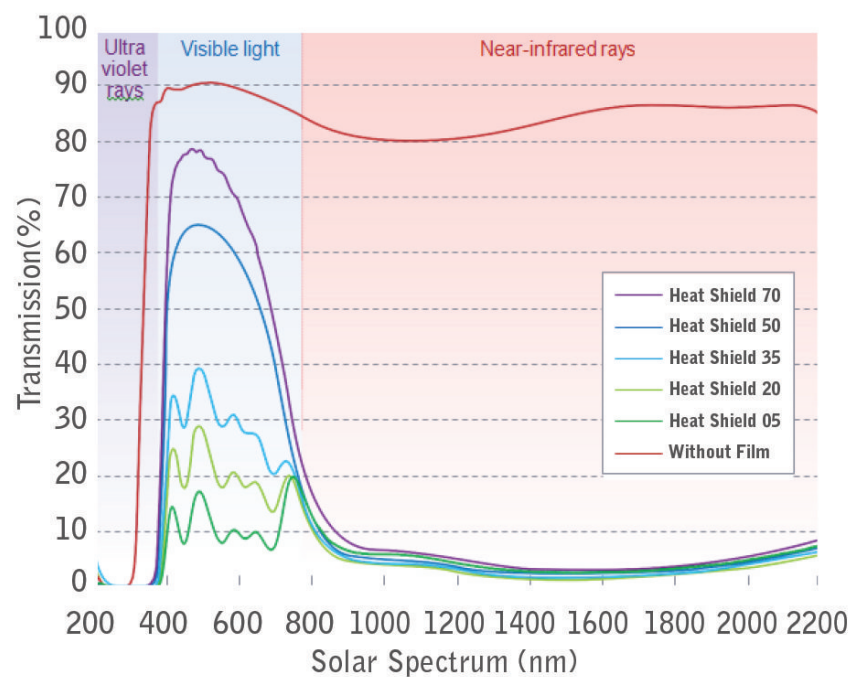
## Extreme solar control performance proved by a wide range of scientific data

Blocking harmful UV radiation



- \* With film applied, 99% or more of UV radiation is blocked 380
- Actual measured value tested on 3-mm float glass with film applied

## Spectral Transmission Graph



- Actual measured value tested on 3-mm float glass with film applied

## Optical Properties

	Visible Light*		Ultra-Violet Transmission*	Total Solar Energy*			Shading Coefficient*	U-Value* (W/m2K)	Infrared Rejection	Total Solar Energy Rejection (%)
	Reflectance(%)	Transmission(%)		Reflectance(%)	Absorption(%)	Transmission(%)				
Heat Shield 70	7	70	<1	6	55	39	0.66	4.2	99	56
Heat Shield 50	7	50	<1	6	57	37	0.64	3.4	99	59
Heat Shield 35	5	34	<1	5	73	22	0.53	2.7	99	63
Heat Shield 20	5	19	<1	5	78	17	0.49	2.1	99	68
Heat Shield 05	5	05	<1	5	86	9	0.43	1.7	99	72
	7	91	65	8	7	85	1.00	6.0	13	11

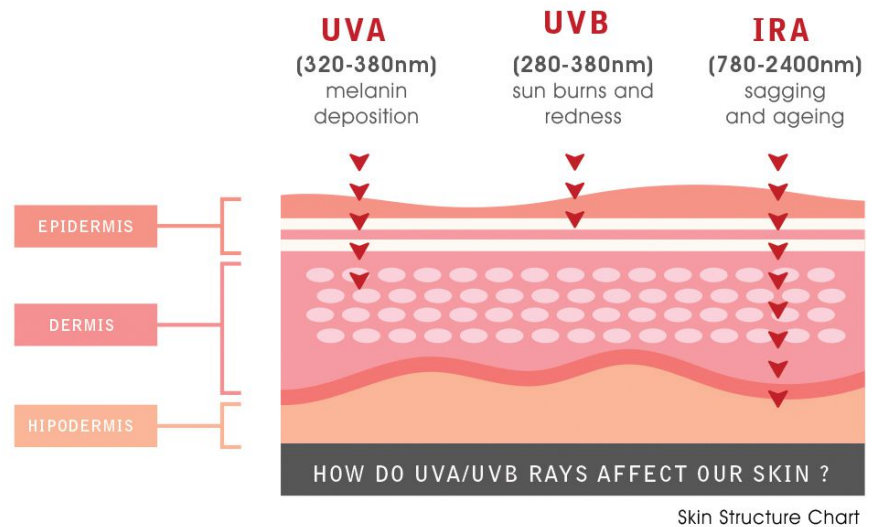
### Based on automotive window film Sun-Fighter

Shading coefficient is the relative value that indicates the amount of solar heat flowing into the The indicated value is measured using 3-mm float glass with each type of film applied, with the 3-mm unfilmed float glass taken to have a value of 1.00.

U-value is the value that indicates the amount of conductive heat energy transferred through one square meter of 3-mm float glass (with film applied) in 1 hour for each 1°C temperature difference between the indoor and outdoor

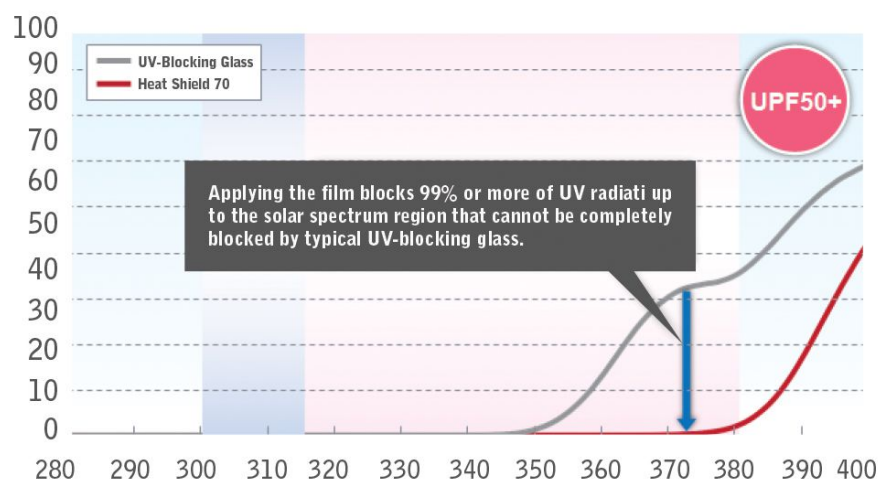
Total solar energy rejection indicates the ratio of energy that does not penetrate the interior, with the amount of incident solar energy onto glass taken to be 100%.

\*\*\* The values reported in the data are actual measured values and are not guaranteed.



## Blocking Harmful UV Radiation

We all know that ultraviolet (UV) rays from the sun can cause real damage to your skin—UVA rays are a main cause of dark spots, fine lines and wrinkles, loss of skin elasticity and other signs of photoaging, while UVB rays are what cause painful sunburns (not to mention skin cancer). What you might not know, though, is that UV light only accounts for 3 to 5 percent of what reaches us from the sun. The rest is made up of infrared (IR or IRA) rays, which make up a whopping 55% of the light that hits your skin on a daily basis, and visible light.





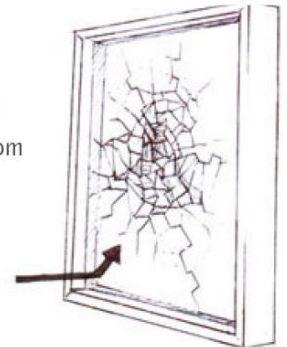
### Standard Window No Film

When window gets struck, sharp glass can fly out and cause damage.



### Heat Shield Window Film

The security film keeps the glass from flying out and cause damage.



## Keeps Glass From Shattering

In case of a car accident, the automotive window tinting film from Sun-FighterTechnologies can also protect your windows from shattering, reducing the likelihood of further injury. The film usually holds the little pieces of the glass together even after the window breaks. So in case you ever find yourself in an accident, you'll definitely be grateful that you had tint applied.

## Heat Shield 70

Total Solar Energy Rejection : 56%  
Infrared Energy Rejection : 99%

## Heat Shield 50

Total Solar Energy Rejection : 59%  
Infrared Energy Rejection : 99%

## Heat Shield 35

Total Solar Energy Rejection : 63%  
Infrared Energy Rejection : 99%

## Heat Shield 20

Total Solar Energy Rejection : 68%  
Infrared Energy Rejection : 99%

## Heat Shield 05

Total Solar Energy Rejection : 72%  
Infrared Energy Rejection : 99%



# SUPERIOR

Infrared & Total Heat Rejection

Offering 99% infrared heat rejection thanks to multi-layer nanoparticle technology, Sun-Fighter automotive window tint combines a cool look with extreme performance. Let Heat Shield Series keep you comfortable and protected no matter the weather.



High-Definition  
Vision



99% UV  
Protection



Help Reduce  
Glare



Shattered Glass  
Protection



Help Increase  
Privacy



Help Reduce  
Fading





**SUPERIOR**  
Infrared & Total Heat Rejection



**HEAT  HIELD SERIES 70**

Visible Light Transmittance %	70
Ultraviolet Rejection %	99
IR Rejection % / 950nm	99
IR Rejection % / 1400nm	99
Total Solar Energy Rejected %	56
Thickness (Mil)	2





**SUPERIOR**  
Infrared & Total Heat Rejection



**HEAT  HIELD SERIES 50**

Visible Light Transmittance %	50
Ultraviolet Rejection %	99
IR Rejection % / 950nm	99
IR Rejection % / 1400nm	99
Total Solar Energy Rejected %	59
Thickness (Mil)	2





**SUPERIOR**  
Infrared & Total Heat Rejection



**HEAT  HIELD SERIES 35**

Visible Light Transmittance %	35
Ultraviolet Rejection %	99
IR Rejection % / 950nm	99
IR Rejection % / 1400nm	99
Total Solar Energy Rejected %	63
Thickness (Mil)	2





**SUPERIOR**  
Infrared & Total Heat Rejection



**HEAT  HIELD SERIES 20**

Visible Light Transmittance %	20
Ultraviolet Rejection %	99
IR Rejection % / 950nm	99
IR Rejection % / 1400nm	99
Total Solar Energy Rejected %	68
Thickness (Mil)	2





**SUPERIOR**  
Infrared & Total Heat Rejection



**HEAT  HIELD SERIES 05**

Visible Light Transmittance %	05
Ultraviolet Rejection %	99
IR Rejection % / 950nm	99
IR Rejection % / 1400nm	99
Total Solar Energy Rejected %	72
Thickness (Mil)	2



## Standard Operating Procedure Electronic Warranty Card Submission Instructions For Customer Purchase

### Step 1:-

Please SCAN QR Code below For E-Warranty submission



### Or Go to Link

<https://www.sunbarrier.com.my/customer-warranty-submission/>

### Step 2:-

Please key in all your details & particulars in the online form

- Customers must ensure that customer vehicle photo in warranty registration card **CLEARLY** display the following :
- Car Model and Color
- License Plate Number
- All 6 Windows with FILM foil installed

**CHECK & CONFIRM**  
**Press Submit**

### Step 3:-

Please wait for confirmation of the e - Warranty certificate from our company once you have submitted your e - Warranty online applications for verifications.

### ■ Terms & Conditions : - PLEASE TAKE NOTE:

\*\*\*We will process & verify authentications in within 7 working days from your E-Warranty online submissions for customer eligibility.

\*\*\*Customer must submit online e - **Warranty applications in within 7 days to be eligible for any warranties.**

\*\*\*Falling to do this will disqualify customer purchase from any warranties.