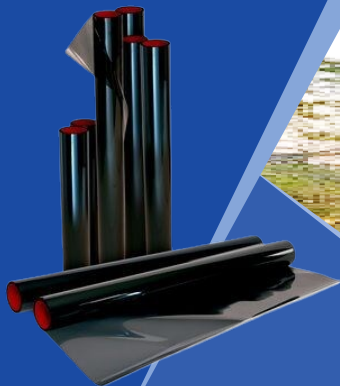




ARCHITECTURAL WINDOW FILMS



JUST BEAT THE HEAT FROM GLASS
BY USING Hi-TECH WINDOW SUN CONTROL FILM
HIGH ATTRIBUTE ARCHITECTURE FILMS





GENERAL SOLAR TERMS

Solar Energy Spectrum : Solar Energy is typically divided into three categories, namely - Ultra violet (3%), Visible (44%) & infrared (53%).

Visible Light Transmittance (VLT) is the ratio of visible solar energy that passes through a glazing system to the total visible energy falling on the system. Higher the VLT more is the light inside the room.

Solar Energy Transmittance is the measurement of the percentage solar radiation that passes directly through a glazing system.

Solar Energy Absorption measurements express the percentage solar radiation absorbed by the glazing system.

Total Solar Energy is the sum of energy transmitted, reflected and absorbed by the system. It represents 100% of the solar energy.

Ultra-violet Transmittance is the measurement of the percentage solar radiation in ultra-violet region that passes directly through the glazing system.

Glare Reduction is a measurement of the reduction in visible light transmission after applying the film to the system as compared to the visible light transmission earlier. (It is represented in %).

Solar Heat Gain is the sum of percentage of solar energy that is either transmitted or absorbed and then re-radiated into the room.





GENERAL SOLAR TERMS

Shading Coefficient is the ratio of solar heat gain through a given glazing system to that of a clear float glass of 1/8inch (approx. 3mm) thickness under the same test conditions. Lower the shading coefficient, better is the ability to reduce solar heat.

Emmisivity measures the surface ability to absorb or reflect Far Infrared radiation. Lower the emmisivity rating, better the insulating quality of the material.

'U' Factor is the overall heat transfer coefficient of the glazing system. It is the amount of conductive heat energy (BTUs) transferred through one square foot of the glazing system during one hour time period for each one degree Fahrenheit temperature difference between indoor and outdoor air. Lower the U-factor, better is the insulating quality of the material.

Total Solar Energy rejection (TSER) is an important measurement of the ability of a glazinf system to reject solar heat in form of the visible light and infrared radiation. Total SER equals solar reflectance plus the part of solar absorption re-radiated outward. Glazing System comprises of the window frame, glazing materials, film applied and the glass itself. Thickness of the polyester film is represented in MIL where 1 MIL represents a thickness of 25 microns.



SALIENT FEATURES

Additional Safety : Hi-TECH Window Films when bonded on glass makes your glass shatter-resistant. This greatly reduces danger from flying splinters in the event of accidental breakage.

Superior Energy Efficiency : Hi-TECH Window Films reduce the load on air-conditioner by rejecting upto 78% of total solar energy incident on the glass as a result it also reduces electricity bill upto 10%

Provides Privacy : Hi-TECH Window Films shield interiors and occupants from prying eyes (depending on light intensity). Thereby, providing privacy in your offices and homes.

Enhances Aesthetics : Hi-TECH Window Films are available in a variety of shades, which adds beauty and enhances the looks of your building.

Eliminates Glare : Hi-TECH Window Films add to your comfort by eliminating upto 80% of the sun glare.

Rejects Harmful UV & IR Rays : Hi-TECH Window Films protect your family from skin diseases by blocking 99% UV rays.



CERAMIC IR FILMS

Designed to reduce up to 65% Solar heat & Give up to 80% VLT

IR Films, also known as “Nano Ceramic Films” has got the application of IR Rejection, which offers consumers the cooling effect at lighter VLTs and attain maximum heat rejection. The NIR blocking organometallic nano particles incorporated within interlayers of laminate construction in combination with conventional dyed film in the product design provides long lasting heat protection to your interiors.





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NANO CERAMIC WINDOW FILMS

NANO CERAMIC IR - PR 05



Thickness	2MIL
Visible Light Transmittance	05%
Visible Light Reflectance	56%
Solar Energy Transmittance	10%
Solar Energy Reflectance	44%
Solar Energy Absorbance	44%
Ultra Violet Transmittance	<1%
Glare Reduction	85%
Shading Coefficient	0.29
Emissivity	0.77
Total Solar Energy Rejection	89%
Infrared Rejection	91-99%

Product Description : High Heat Rejection Film, also known as "IR FILM" is a high performance window film which offers consumers the high end performance properties without usage of metalized film in product design.

Note : Kindly ensure the water mark of  **Hi-TECH SRC** logo while procuring.
NANO CERAMIC IR 99%

Disclaimer : Tests are Representative of Actual Production & May Vary from Batch to Batch





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NANO CERAMIC WINDOW FILMS





NANO CERAMIC IR - PR 20

Thickness	2MIL
Visible Light Transmittance	18%
Visible Light Reflectance	47%
Solar Energy Transmittance	30%
Solar Energy Reflectance	45%
Solar Energy Absorbance	44%
Ultra Violet Transmittance	<1%
Glare Reduction	85%
Shading Coefficient	0.29
Emissivity	0.77
Total Solar Energy Rejection	70%
Infrared Rejection	91-99%

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NANO CERAMIC IR - PR 35

Thickness	2MIL
Visible Light Transmittance	35%
Visible Light Reflectance	42%
Solar Energy Transmittance	11%
Solar Energy Reflectance	45%
Solar Energy Absorbance	44%
Ultra Violet Transmittance	<1%
Glare Reduction	85%
Shading Coefficient	0.29
Emissivity	0.77
Total Solar Energy Rejection	65%
Infrared Rejection	91-99%

Product Description : High Heat Rejection Film, also known as "IR FILM" is a high performance window film which offers consumers the high end performance properties without usage of metalized film in product design.

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NANO CERAMIC IR 99% logo while procuring.

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NANO CERAMIC WINDOW FILMS

NANO CERAMIC IR - PR 50

Thickness	2MIL
Visible Light Transmittance	50%
Visible Light Reflectance	07%
Solar Energy Transmittance	33%
Solar Energy Reflectance	05%
Solar Energy Absorbance	62%
Ultra Violet Transmittance	<1%
Glare Reduction	43%
Shading Coefficient	0.59
Emissivity	0.88
Total Solar Energy Rejection	65%
Infrared Rejection	91-99%

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NANO CERAMIC IR 99%

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After



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Before

After



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NANO CERAMIC IR - PR GN 70

Before

Thickness	2MIL
Visible Light Transmittance	69%
Visible Light Reflectance	07%
Solar Energy Transmittance	46%
Solar Energy Reflectance	05%
Solar Energy Absorbance	49%
Ultra Violet Transmittance	<1%
Glare Reduction	43%
Shading Coefficient	0.70
Emissivity	0.89
Total Solar Energy Rejection	55%
Infrared Rejection	91-99%

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Before filming



After filming



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NANO CERAMIC WINDOW FILMS

NANO CERAMIC IR - PR GR 70

Before Filming

After Filming

Thickness	2MIL
Visible Light Transmittance	69%
Visible Light Reflectance	07%
Solar Energy Transmittance	46%
Solar Energy Reflectance	05%
Solar Energy Absorbance	49%
Ultra Violet Transmittance	<1%
Glare Reduction	43%
Shading Coefficient	0.70
Emissivity	0.89
Total Solar Energy Rejection	58%
Infrared Rejection	91-99%

Product Description : High Heat Rejection Film, also known as "IR FILM" is a high performance window film which offers consumers the high end performance properties without usage of metalized film in product design.

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NANO CERAMIC IR 99%

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NANO CERAMIC WINDOW FILMS





Hi-TECH[®]
NANO CERAMIC WINDOW FILMS

NANO CERAMIC IR - PR GR 80

Thickness	2MIL
Visible Light Transmittance	79%
Visible Light Reflectance	09%
Solar Energy Transmittance	47%
Solar Energy Reflectance	07%
Solar Energy Absorbance	46%
Ultra Violet Transmittance	<1%
Glare Reduction	43%
Shading Coefficient	0.69
Emissivity	0.89
Total Solar Energy Rejection	50%
Infrared Rejection	91-99%

Product Description : High Heat Rejection Film, also known as “IR FILM” is a high performance window film which offers consumers the high end performance properties without usage of metalized film in product design.

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DO'S

- ❖ *A soft Turkish towel or clean sponge is recommended for washing followed by soft cloth for drying the window.*
- ❖ *Common cleaning solutings without abrasive materials or clear water should be used.*
- ❖ *Use separate window cleaning materials when washing exterior and interior glass at the same time.*

DON'T'S

- ❖ *Do not wash the windows for first two weeks after the Sun Control film has been fixed.*
- ❖ *Aviod any abrasive or Ammonia based solutions or paper towels for cleaning the glass from inside.*
- ❖ *Do not use bristle brushes. Avoid use of any sharp edge or hard articles in contact with your film.*

WARRANTY COVERAGE

- ❖ Colours Fading
- ❖ Gum Failure
- ❖ Automatic - Fillup
- ❖ Film Cracking
- ❖ IR Rejection
- ❖ Heat Rejection
- ❖ Film Shinke
- ❖ Film Bobulls



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- A photograph of a modern building with a large glass facade. The glass reflects the sky, clouds, and surrounding greenery. The building has a contemporary design with vertical metal fins and a white, angular structure on the right side.
- ❖ Architectural Window Films
 - ❖ Commercial Window Films
 - ❖ Residential Window Films
 - ❖ Automobile Window Films
 - ❖ Frosted Film
 - ❖ Colour Sticker
 - ❖ Computer Custom Cut Design



<https://www.shreevinayagastickers.in/>

Feel the cool after using Hi - TECH window film

