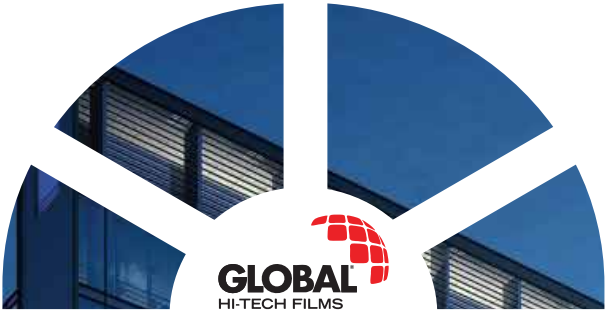

ARCHITECTURE WINDOW FILMS

COLOUR & TINTS SHADE CARD

ABOUT US

Global Hi-Tech Films Inc. is a pioneer and a leading manufacturer of Suncontrol Window Films under the prominent brand Global Window Films. These suncontrol films are "dyed," not "coated," assuring better performance and longevity.

Global is one of the only two companies in the world that possess the unique technique for dyeing polyester films for solar control applications. One of the most trusted brands in the world, Global Window Films enjoys patents in 16 countries.

It is exported to more than 80 nations across the globe, including the USA, the UK, Australia, and Japan.

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DEFINATION

Solar Terms:

Solar Energy Spectrum: Solar Energy is typically divided into three categories, namely – Ultraviolet (3%), Visible (44%) & Infrared (53%).

Visible Light Transmittance (VLT): 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.

Total Solar Transmittance (TST): TST is the measurement of the percentage of solar radiation that passes directly through a glazing system.

Solar Energy Reflectance (R): It is the measurement of the percentage of solar radiation reflected by the glazing system.

Total Solar Absorption (TSA): TSA measurements express the percentage of 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 (UVT): UVT is the measurement of the percentage of solar radiation in the ultra-violet region that passes directly through the glazing system.

Glare Reduction (GR): GR 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 Coefficient (SHGC): SHGC is the percentage of incident solar energy transmitted by a glazing system which is equal to solar energy transmittance plus the part of solar absorption which is re-radiated inward.

DEFINATION

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

Emissivity (E): It measures the surface ability to absorb or reflect Far Infrared Radiation. Lower the emissivity rating, better the insulating quality of the material.

U' Factor (U): It is the overall heat transfer co-efficient 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): TSER is an important measurement of the ability of a glazing system to reject solar heat in the form of visible light and infrared radiation. Total SER equals solar reflectance plus the part of solar absorption reradiated outward. Glazing System comprises 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.

NIR Blocking (NIRB): NIRB is the Near Infra-Red energy blocking. It specifies NIR Blocking at 1025 nm of our speciality films.

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SOLAR
CONTROL
WINDOW
FILMS

Solar Control Films

SSF 70 EXTERIOR

Series	Spectrally Selective

Construction:

Thickness	2.5 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	70 %	64 %
VLR-E	Visible Light Reflectance Ext	11 %	15 %
VLR-I	Visible Light Reflectance (Int)	11 %	18 %
GR	Glare Reduction	23 %	21 %
T	Total Solar Transmittance	42 %	37 %
A	Total Solar Absorbtance	36 %	40 %
R	Total Solar Reflectance	22 %	23 %
TSER	Total Solar Energy Rejected	48 %	55 %
NIRB	NIR Block at 1025nm	95 ± 3.0 %	NA
LE	Luminous Efficacy	1.17	1.23
U	Winter Median U-Value	1.02	0.46
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	99 %	>99 %
SC	Shading Coefficient	0.60	0.52
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.52	0.45

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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HI-TECH FILMS

Solar Control Films

SSF 55 EXTERIOR

Series	Spectrally Selective

Construction:

Thickness	2.5 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	54 %	49 %
VLR-E	Visible Light Reflectance Ext	10 %	12 %
VLR-I	Visible Light Reflectance (Int)	12 %	18 %
GR	Glare Reduction	41 %	40 %
T	Total Solar Transmittance	30 %	27 %
A	Total Solar Absorbtance	49 %	51 %
R	Total Solar Reflectance	21 %	22 %
TSER	Total Solar Energy Rejected	57 %	64 %
NIRB	NIR Block at 1025nm	95 ± 3.0 %	NA
LE	Luminous Efficacy	1.08	1.17
U	Winter Median U-Value	1.02	0.46
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	99 %	>99 %
SC	Shading Coefficient	0.49	0.42
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.43	0.36

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
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Solar Control Films

SSF 70 INTERIOR

Series	Spectrally Selective

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	69 %	61 %
VLR-E	Visible Light Reflectance Ext	8 %	14 %
VLR-I	Visible Light Reflectance (Int)	9 %	138 %
GR	Glare Reduction	24 %	25 %
T	Total Solar Transmittance	35 %	31 %
A	Total Solar Absorbtance	29 %	47 %
R	Total Solar Reflectance	36 %	22 %
TSER	Total Solar Energy Rejected	55 %	49 %
NIRB	NIR Block at 1025nm	95 ± 3.0 %	NA
LE	Luminous Efficacy	1.32	1.03
U	Winter Median U-Value	1.04	0.45
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	99 %	>99 %
SC	Shading Coefficient	0.52	0.59
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.45	0.51

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
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Solar Control Films

SSF 55 INTERIOR

Series	Spectrally Selective

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	53 %	47 %
VLR-E	Visible Light Reflectance Ext	8 %	14 %
VLR-I	Visible Light Reflectance (Int)	9 %	16 %
GR	Glare Reduction	42%	42 %
T	Total Solar Transmittance	27 %	24 %
A	Total Solar Absorbtance	28 %	55 %
R	Total Solar Reflectance	45 %	21 %
TSER	Total Solar Energy Rejected	61 %	51 %
NIRB	NIR Block at 1025nm	95 ± 3.0 %	NA
LE	Luminous Efficacy	1.18	0.84
U	Winter Median U-Value	1.04	0.45
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	99 %	>99 %
SC	Shading Coefficient	0.45	0.56
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.39	0.49

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

ICE COOL BLAST 80

Series	Spectrally Selective

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	78 %	70 %
VLR-E	Visible Light Reflectance Ext	9 %	15 %
VLR-I	Visible Light Reflectance (Int)	8 %	12 %
GR	Glare Reduction	14 %	14 %
T	Total Solar Transmittance	45 %	40 %
A	Total Solar Absorbtance	47 %	47 %
R	Total Solar Reflectance	8 %	13 %
TSER	Total Solar Energy Rejected	42 %	35 %
NIRB	NIR Block at 1025nm	73 ± 3.0 %	NA
LE	Luminous Efficacy	1.16	0.93
U	Winter Median U-Value	1.04	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.67	0.75
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.58	0.65

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

ICE COOL GREY 86

Series	Spectrally Selective

Construction:

Thickness	1.5 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	86 %	77 %
VLR-E	Visible Light Reflectance Ext	9 %	15 %
VLR-I	Visible Light Reflectance (Int)	8 %	11 %
GR	Glare Reduction	6 %	5 %
T	Total Solar Transmittance	65 %	59 %
A	Total Solar Absorbtance	27 %	28 %
R	Total Solar Reflectance	8 %	13 %
TSER	Total Solar Energy Rejected	27 %	28%
NIRB	NIR Block at 1025nm	35 ± 3.0 %	NA
LE	Luminous Efficacy	1.04	0.93
U	Winter Median U-Value	1.04	0.49
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.83	0.83
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.73	0.72

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

ICE COOL GREY 70

Series	Spectrally Selective

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	69 %	62 %
VLR-E	Visible Light Reflectance Ext	8 %	15 %
VLR-I	Visible Light Reflectance (Int)	9 %	12 %
GR	Glare Reduction	24 %	23 %
T	Total Solar Transmittance	38 %	34 %
A	Total Solar Absorbtance	58 %	53 %
R	Total Solar Reflectance	7 %	13 %
TSER	Total Solar Energy Rejected	47 %	38 %
NIRB	NIR Block at 1025nm	88 ± 3.0 %	NA
LE	Luminous Efficacy	1.13	0.86
U	Winter Median U-Value	NA	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.61	0.72
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.53	0.62

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

NICROME 20

Series	(SPUTTERED) Neutral and Solar Broze

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	21 %	19 %
VLR-E	Visible Light Reflectance Ext	32 %	35 %
VLR-I	Visible Light Reflectance (Int)	37 %	34 %
GR	Glare Reduction	77 %	77 %
T	Total Solar Transmittance	18 %	16 %
A	Total Solar Absorbtance	50 %	54 %
R	Total Solar Reflectance	32 %	30 %
TSER	Total Solar Energy Rejected	68 %	55 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	NA	0.37
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.37	0.52
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.32	0.45

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

NICROME 35

Series	(SPUTTERED) Neutral and Solar Broze

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	34 %	31 %
VLR-E	Visible Light Reflectance Ext	20 %	25 %
VLR-I	Visible Light Reflectance (Int)	24 %	25 %
GR	Glare Reduction	63 %	62 %
T	Total Solar Transmittance	29 %	25 %
A	Total Solar Absorbtance	52 %	54 %
R	Total Solar Reflectance	19 %	21 %
TSER	Total Solar Energy Rejected	56 %	46 %
NIRB	NIR Block at 1025nm	65 ± 3.0 %	NA
LE	Luminous Efficacy	0.68	0.49
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.50	0.63
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.44	0.54

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

NICROME 20 EXTERIOR

Series	Exterior Sputtered Neutral

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	22 %	19 %
VLR-E	Visible Light Reflectance Ext	36 %	36 %
VLR-I	Visible Light Reflectance (Int)	30 %	32 %
GR	Glare Reduction	76 %	77 %
T	Total Solar Transmittance	19 %	16 %
A	Total Solar Absorbtance	46 %	49 %
R	Total Solar Reflectance	35 %	35 %
TSER	Total Solar Energy Rejected	68 %	75 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.59	0.66
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.37	0.29
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.32	0.25

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

NICROME 35 EXTERIOR

Series	Exterior Sputtered Neutral

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	34 %	31 %
VLR-E	Visible Light Reflectance Ext	24 %	25 %
VLR-I	Visible Light Reflectance (Int)	20 %	24 %
GR	Glare Reduction	63 %	62 %
T	Total Solar Transmittance	29 %	24 %
A	Total Solar Absorbtance	47 %	51 %
R	Total Solar Reflectance	24 %	25 %
TSER	Total Solar Energy Rejected	58 %	66 %
NIRB	NIR Block at 1025nm	65 ± 3.0 %	NA
LE	Luminous Efficacy	0.71	0.79
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.48	0.39
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.42	0.34

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

DUAL REFLECTIVE CHARCOAL 05

Series	Dual Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	7 %	6 %
VLR-E	Visible Light Reflectance Ext	65 %	64 %
VLR-I	Visible Light Reflectance (Int)	14 %	18 %
GR	Glare Reduction	93 %	93 %
T	Total Solar Transmittance	7 %	6 %
A	Total Solar Absorbtance	39 %	49%
R	Total Solar Reflectance	54 %	45 %
TSER	Total Solar Energy Rejected	82 %	72 %
NIRB	NIR Block at 1025nm	88 ± 3.0 %	NA
LE	Luminous Efficacy	0.35	0.18
U	Winter Median U-Value	1.04 %	0.46
E	Emissivity	0.70	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.20	0.33
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.18	0.28

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

DUAL REFLECTIVE CHARCOAL 15

Series	Dual Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	15 %	14 %
VLR-E	Visible Light Reflectance Ext	47 %	47 %
VLR-I	Visible Light Reflectance (Int)	21 %	21 %
GR	Glare Reduction	84 %	83 %
T	Total Solar Transmittance	13 %	12 %
A	Total Solar Absorbtance	43 %	48 %
R	Total Solar Reflectance	44 %	40 %
TSER	Total Solar Energy Rejected	75 %	63 %
NIRB	NIR Block at 1025nm	82 ± 3.0 %	NA
LE	Luminous Efficacy	0.52	0.33
U	Winter Median U-Value	1.08 %	0.45
E	Emissivity	0.77	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.29	0.42
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.25	0.37

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

DUAL REFLECTIVE CHARCOAL 25

Series	Dual Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	23 %	21 %
VLR-E	Visible Light Reflectance Ext	40 %	41 %
VLR-I	Visible Light Reflectance (Int)	17 %	17 %
GR	Glare Reduction	74 %	74 %
T	Total Solar Transmittance	19 %	17 %
A	Total Solar Absorbtance	45 %	49 %
R	Total Solar Reflectance	36 %	34 %
TSER	Total Solar Energy Rejected	69 %	57 %
NIRB	NIR Block at 1025nm	74 ± 3.0 %	NA
LE	Luminous Efficacy	0.64	0.42
U	Winter Median U-Value	1.03 %	0.46
E	Emissivity	0.68	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.36	0.50
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.31	0.43

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

DUAL REFLECTIVE CHARCOAL 35

Series	Dual Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	35 %	32 %
VLR-E	Visible Light Reflectance Ext	25 %	29 %
VLR-I	Visible Light Reflectance (Int)	14 %	26 %
GR	Glare Reduction	61 %	60 %
T	Total Solar Transmittance	29 %	26 %
A	Total Solar Absorbtance	47 %	49 %
R	Total Solar Reflectance	24 %	25 %
TSER	Total Solar Energy Rejected	58 %	48 %
NIRB	NIR Block at 1025nm	62 ± 3.0 %	NA
LE	Luminous Efficacy	0.73	0.53
U	Winter Median U-Value	1.04 %	0.46
E	Emissivity	0.72	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.48	0.60
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.42	0.52

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

DUAL REFLECTIVE CHARCOAL 45

Series	Dual Reflective

Construction:

Thickness	2 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	45 %	41 %
VLR-E	Visible Light Reflectance Ext	15 %	18 %
VLR-I	Visible Light Reflectance (Int)	13 %	14 %
GR	Glare Reduction	51 %	49 %
T	Total Solar Transmittance	36 %	32 %
A	Total Solar Absorbtance	50 %	50 %
R	Total Solar Reflectance	14 %	18 %
TSER	Total Solar Energy Rejected	50 %	41 %
NIRB	NIR Block at 1025nm	60 ± 3.0 %	NA
LE	Luminous Efficacy	0.79	0.60
U	Winter Median U-Value	1.07 %	NA
E	Emissivity	0.75	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.57	0.68
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.50	0.59

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
HI-TECH FILMS

Solar Control Films

REFLECTIVE SILVER 20

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	18 %	17 %
VLR-E	Visible Light Reflectance Ext	58 %	58 %
VLR-I	Visible Light Reflectance (Int)	59 %	59 %
GR	Glare Reduction	80 %	79 %
T	Total Solar Transmittance	13 %	12 %
A	Total Solar Absorbtance	34 %	41 %
R	Total Solar Reflectance	53 %	47 %
TSER	Total Solar Energy Rejected	78 %	68 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.72	0.46
U	Winter Median U-Value	1.01 %	0.45
E	Emissivity	0.64	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.25	0.37
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.22	0.32

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
HI-TECH FILMS

Solar Control Films

REFLECTIVE SILVER 35

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	36 %	33 %
VLR-E	Visible Light Reflectance Ext	38 %	34 %
VLR-I	Visible Light Reflectance (Int)	40 %	38 %
GR	Glare Reduction	60 %	59 %
T	Total Solar Transmittance	28 %	26 %
A	Total Solar Absorbtance	35 %	40 %
R	Total Solar Reflectance	37 %	34 %
TSER	Total Solar Energy Rejected	63 %	54 %
NIRB	NIR Block at 1025nm	68 ± 3.0%	NA
LE	Luminous Efficacy	0.84	0.62
U	Winter Median U-Value	1.05 %	0.45
E	Emissivity	0.72	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.43	0.53
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.37	0.46

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

REFLECTIVE SILVER 50

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	49 %	45 %
VLR-E	Visible Light Reflectance Ext	26 %	29 %
VLR-I	Visible Light Reflectance (Int)	27 %	22 %
GR	Glare Reduction	46 %	44 %
T	Total Solar Transmittance	38 %	35 %
A	Total Solar Absorbtance	36 %	40 %
R	Total Solar Reflectance	26 %	25 %
TSER	Total Solar Energy Rejected	52 %	45 %
NIRB	NIR Block at 1025nm	55 ± 3.0 %	NA
LE	Luminous Efficacy	0.88	0.71
U	Winter Median U-Value	1.07 %	0.47
E	Emissivity	0.78	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.56	0.63
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.48	0.55

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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REFLECTIVE GREEN 10

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	13 %	12 %
VLR-E	Visible Light Reflectance Ext	23 %	27 %
VLR-I	Visible Light Reflectance (Int)	56 %	56 %
GR	Glare Reduction	86 %	85 %
T	Total Solar Transmittance	12 %	10 %
A	Total Solar Absorbtance	56 %	61 %
R	Total Solar Reflectance	32 %	29 %
TSER	Total Solar Energy Rejected	73 %	59 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.41	0.26
U	Winter Median U-Value	1.02 %	0.45
E	Emissivity	0.66	NA
UVR	Ultraviolet Rejected	>99 %	>99
SC	Shading Coefficient	0.32	0.47
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.27	0.41

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

REFLECTIVE BLUE 15

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	13 %	12 %
VLR-E	Visible Light Reflectance Ext	31 %	34 %
VLR-I	Visible Light Reflectance (Int)	55 %	55 %
GR	Glare Reduction	86 %	85 %
T	Total Solar Transmittance	11 %	10 %
A	Total Solar Absorbtance	52 %	57 %
R	Total Solar Reflectance	37 %	33 %
TSER	Total Solar Energy Rejected	75 %	62 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.45	0.27
U	Winter Median U-Value	1.01 %	0.45
E	Emissivity	0.69	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.29	0.44
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.25	0.38

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

REFLECTIVE BRONZE 10

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	10 %	9 %
VLR-E	Visible Light Reflectance Ext	21 %	26 %
VLR-I	Visible Light Reflectance (Int)	56 %	56 %
GR	Glare Reduction	89 %	89 %
T	Total Solar Transmittance	10 %	9 %
A	Total Solar Absorbtance	59 %	62 %
R	Total Solar Reflectance	31 %	29 %
TSER	Total Solar Energy Rejected	74 %	59 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.32	0.19
U	Winter Median U-Value	1.01 %	0.45
E	Emissivity	0.66	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.31	0.47
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.26	0.41

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

REFLECTIVE GREY 10 AMS

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	8 %	8 %
VLR-E	Visible Light Reflectance Ext	56 %	57 %
VLR-I	Visible Light Reflectance (Int)	13 %	14 %
GR	Glare Reduction	91 %	90 %
T	Total Solar Transmittance	9 %	8 %
A	Total Solar Absorbtance	39 %	46 %
R	Total Solar Reflectance	52 %	46 %
TSER	Total Solar Energy Rejected	80 %	68 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.35	0.22
U	Winter Median U-Value	1.01 %	0.46
E	Emissivity	0.64	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.23	0.36
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.20	0.32

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

RA CHARCOAL 35

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	31 %	29 %
VLR-E	Visible Light Reflectance Ext	33 %	36 %
VLR-I	Visible Light Reflectance (Int)	23 %	23 %
GR	Glare Reduction	66 %	64 %
T	Total Solar Transmittance	26 %	23 %
A	Total Solar Absorbtance	44 %	48 %
R	Total Solar Reflectance	30 %	29 %
TSER	Total Solar Energy Rejected	62 %	52 %
NIRB	NIR Block at 1025nm	68 ± 3.0 %	NA
LE	Luminous Efficacy	0.70	0.53
U	Winter Median U-Value	1.09 %	0.47
E	Emissivity	0.73	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.44	0.55
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.38	0.48

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

RA CHARCOAL 20

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	18 %	17 %
VLR-E	Visible Light Reflectance Ext	36 %	38 %
VLR-I	Visible Light Reflectance (Int)	13 %	13 %
GR	Glare Reduction	80 %	79 %
T	Total Solar Transmittance	20 %	17 %
A	Total Solar Absorbtance	53 %	54 %
R	Total Solar Reflectance	27 %	29 %
TSER	Total Solar Energy Rejected	65 %	54 %
NIRB	NIR Block at 1025nm	68 ± 3.0 %	NA
LE	Luminous Efficacy	0.45	0.33
U	Winter Median U-Value	0.99 %	0.46
E	Emissivity	0.70	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.40	0.52
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.35	0.46

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

RA CHARCOAL 10

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	10 %	9 %
VLR-E	Visible Light Reflectance Ext	35 %	37 %
VLR-I	Visible Light Reflectance (Int)	10 %	12 %
GR	Glare Reduction	89 %	89 %
T	Total Solar Transmittance	16 %	13 %
A	Total Solar Absorbtance	53 %	57 %
R	Total Solar Reflectance	31 %	30 %
TSER	Total Solar Energy Rejected	70 %	58 %
NIRB	NIR Block at 1025nm	68 ± 3.0 %	NA
LE	Luminous Efficacy	0.29	0.18
U	Winter Median U-Value	1.02 %	0.46
E	Emissivity	0.75	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.35	0.49
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.30	0.42

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

RA BRONZE 25

Series	Reflective

Construction:

Thickness	2 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	27 %	27 %
VLR-E	Visible Light Reflectance Ext	34 %	18 %
VLR-I	Visible Light Reflectance (Int)	26 %	20 %
GR	Glare Reduction	70 %	67 %
T	Total Solar Transmittance	25 %	27 %
A	Total Solar Absorbtance	42 %	54 %
R	Total Solar Reflectance	33 %	19 %
TSER	Total Solar Energy Rejected	64 %	44 %
NIRB	NIR Block at 1025nm	68 ± 3.0 %	NA
LE	Luminous Efficacy	0.64	0.42
U	Winter Median U-Value	1.09 %	0.46
E	Emissivity	0.73	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.42	0.65
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.36	0.56

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

RA GREY 15

Series	Reflective

Construction:

Thickness	2 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	11 %	10 %
VLR-E	Visible Light Reflectance Ext	35 %	37 %
VLR-I	Visible Light Reflectance (Int)	10 %	11 %
GR	Glare Reduction	88 %	88 %
T	Total Solar Transmittance	17 %	14 %
A	Total Solar Absorbtance	53 %	57 %
R	Total Solar Reflectance	30 %	29 %
TSER	Total Solar Energy Rejected	69 %	57 %
NIRB	NIR Block at 1025nm	68 ± 3.0 %	NA
LE	Luminous Efficacy	0.31	0.20
U	Winter Median U-Value	1.02 %	NA
E	Emissivity	0.75	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.36	0.50
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.31	0.43

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

HP BLUE 35

Series	High Performance

Construction:

Thickness	1.5 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	41 %	37 %
VLR-E	Visible Light Reflectance Ext	10 %	16 %
VLR-I	Visible Light Reflectance (Int)	12 %	13 %
GR	Glare Reduction	55 %	54 %
T	Total Solar Transmittance	40 %	33 %
A	Total Solar Absorbtance	49 %	52 %
R	Total Solar Reflectance	11 %	15 %
TSER	Total Solar Energy Rejected	46 %	38 %
NIRB	NIR Block at 1025nm	42 ± 3.0 %	NA
LE	Luminous Efficacy	0.66	0.52
U	Winter Median U-Value	1.10 %	NA
E	Emissivity	0.8	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.62	0.71
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.54	0.62

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Solar Control Films

R SILVER 15 EXTERIOR

Series	Exterior Reflective

Construction:

Thickness	2.5 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	14 %	13 %
VLR-E	Visible Light Reflectance Ext	72 %	72 %
VLR-I	Visible Light Reflectance (Int)	69 %	68 %
GR	Glare Reduction	85 %	84 %
T	Total Solar Transmittance	10 %	9 %
A	Total Solar Absorbtance	18 %	19 %
R	Total Solar Reflectance	72 %	72 %
TSER	Total Solar Energy Rejected	85 %	88 %
NIRB	NIR Block at 1025nm	85 ± 3.0 %	NA
LE	Luminous Efficacy	0.78	0.93
U	Winter Median U-Value	1.01 %	NA
E	Emissivity	0.62	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.18	0.14
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.15	0.12

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

R SILVER 20 EXTERIOR

Series	Exterior Reflective

Construction:

Thickness	2.5 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	19 %	17 %
VLR-E	Visible Light Reflectance Ext	62 %	62 %
VLR-I	Visible Light Reflectance (Int)	58 %	55 %
GR	Glare Reduction	79 %	79 %
T	Total Solar Transmittance	14 %	11 %
A	Total Solar Absorbtance	23 %	26 %
R	Total Solar Reflectance	63 %	63 %
TSER	Total Solar Energy Rejected	81 %	84 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.95	0.89
U	Winter Median U-Value	1.01 %	0.45
E	Emissivity	0.64	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.20	0.19
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.19	0.16

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

HP NATURAL 35

Series	High Performance

Construction:

Thickness	1.5 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	39 %	36 %
VLR-E	Visible Light Reflectance Ext	14 %	19 %
VLR-I	Visible Light Reflectance (Int)	20 %	22 %
GR	Glare Reduction	57 %	56 %
T	Total Solar Transmittance	36 %	31 %
A	Total Solar Absorbtance	48 %	52 %
R	Total Solar Reflectance	16 %	17 %
TSER	Total Solar Energy Rejected	51 %	40 %
NIRB	NIR Block at 1025nm	50 ± 3.0 %	NA
LE	Luminous Efficacy	0.69	0.54
U	Winter Median U-Value	1.11 %	0.47
E	Emissivity	0.8	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.56	0.67
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.49	0.6

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Solar Control Films

ICE COOL GREY 70 Exterior

Series	Exterior Reflective

Construction:

Thickness	2.5 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	68 %	63 %
VLR-E	Visible Light Reflectance Ext	8 %	12 %
VLR-I	Visible Light Reflectance (Int)	9 %	14 %
GR	Glare Reduction	25 %	22 %
T	Total Solar Transmittance	38 %	39 %
A	Total Solar Absorbtance	54 %	51 %
R	Total Solar Reflectance	8 %	10 %
TSER	Total Solar Energy Rejected	47 %	52 %
NIRB	NIR Block at 1025nm	88 ± 3.0 %	NA
LE	Luminous Efficacy	1.11	1.15
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.61	0.55
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.63	0.48

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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SAFETY
AND
SECURITY
FILMS

Safety & Security

4 MIL SAFETY Film

Series	Safety & Security

Construction:

Thickness	4 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	90 %	81 %
VLR-E	Visible Light Reflectance Ext	9 %	15 %
VLR-I	Visible Light Reflectance (Int)	9 %	9 %
GR	Glare Reduction	1 %	0
T	Total Solar Transmittance	83 %	71 %
A	Total Solar Absorbtance	11 %	17 %
R	Total Solar Reflectance	6 %	12 %
TSER	Total Solar Energy Rejected	13 %	24 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.92	0.92
U	Winter Median U-Value	1.12 %	0.49
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.98	0.88
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.87	0.76

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Safety & Security

7 MIL SAFETY FILM

Series	Safety & Security

Construction:

Thickness	7mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	91 %	81 %
VLR-E	Visible Light Reflectance Ext	9 %	15 %
VLR-I	Visible Light Reflectance (Int)	9 %	10%
GR	Glare Reduction	0	0
T	Total Solar Transmittance	81 %	70 %
A	Total Solar Absorbtance	12 %	17 %
R	Total Solar Reflectance	7 %	13 %
TSER	Total Solar Energy Rejected	15 %	24 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.93	0.92
U	Winter Median U-Value	1.12 %	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.98	0.88
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.89	0.76

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Safety & Security

8 MIL SAFETY FILM

Series	Safety & Security

Construction:

Thickness	8mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	91 %	81 %
VLR-E	Visible Light Reflectance Ext	9 %	15 %
VLR-I	Visible Light Reflectance (Int)	9 %	10%
GR	Glare Reduction	0	79
T	Total Solar Transmittance	81 %	70 %
A	Total Solar Absorbtance	12 %	17 %
R	Total Solar Reflectance	7 %	13 %
TSER	Total Solar Energy Rejected	15 %	24 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.93	0.45
U	Winter Median U-Value	1.12 %	0.45
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.98	0.88
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.89	0.32

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Safety & Security

4 Mil CH 20 COMBINATION SAFETY

Series	Safety & Security

Construction:

Thickness	4 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	20 %	18 %
VLR-E	Visible Light Reflectance Ext	6 %	13 %
VLR-I	Visible Light Reflectance (Int)	7 %	7 %
GR	Glare Reduction	78 %	78 %
T	Total Solar Transmittance	44 %	35 %
A	Total Solar Absorbtance	50 %	53 %
R	Total Solar Reflectance	6 %	12 %
TSER	Total Solar Energy Rejected	42 %	36 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.30	0.24
U	Winter Median U-Value	1.12 %	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.67	0.74
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.58	0.64

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
HI-TECH FILMS

Safety & Security

4 Mil CH 35 COMBINATION SAFETY

Series	Safety & Security

Construction:

Thickness	4 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	35 %	32 %
VLR-E	Visible Light Reflectance Ext	6 %	13 %
VLR-I	Visible Light Reflectance (Int)	7 %	7 %
GR	Glare Reduction	62 %	60 %
T	Total Solar Transmittance	52 %	42 %
A	Total Solar Absorbtance	41 %	46 %
R	Total Solar Reflectance	7 %	12 %
TSER	Total Solar Energy Rejected	37 %	34 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.49	0.42
U	Winter Median U-Value	1.12 %	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.72	0.76
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.63	0.66

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

GLOBAL®
HI-TECH FILMS

Safety & Security

4 Mil CH 50 COMBINATION SAFETY

Series	Safety & Security

Construction:

Thickness	4 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	51 %	46 %
VLR-E	Visible Light Reflectance Ext	6 %	14 %
VLR-I	Visible Light Reflectance (Int)	7 %	8 %
GR	Glare Reduction	45 %	43 %
T	Total Solar Transmittance	59 %	48 %
A	Total Solar Absorbtance	34 %	40 %
R	Total Solar Reflectance	7 %	12 %
TSER	Total Solar Energy Rejected	31 %	32 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.65	0.58
U	Winter Median U-Value	1.13 %	NA
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.79	0.79
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.69	0.68

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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PRIVACY
AND
SPECIALITY

Privacy & Speciality Films

BLACKOUT

Series	Privacy & Speciality

Construction:

Thickness	2.5 mil
Metal	Yes
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	0	0
VLR-E	Visible Light Reflectance Ext	4 %	11 %
VLR-I	Visible Light Reflectance (Int)	5 %	5 %
GR	Glare Reduction	100 %	100 %
T	Total Solar Transmittance	0	0
A	Total Solar Absorbtance	66 %	70 %
R	Total Solar Reflectance	34 %	30 %
TSER	Total Solar Energy Rejected	82 %	64 %
NIRB	NIR Block at 1025nm	97 ± 3.0 %	NA
LE	Luminous Efficacy	0.00	0.00
U	Winter Median U-Value	1.00 %	0.45
E	Emissivity	0.63	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.21	0.41
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.18	0.36

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Privacy & Speciality Films

Whiteout 2M

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	8 %	8 %
VLR-E	Visible Light Reflectance Ext	59 %	59 %
VLR-I	Visible Light Reflectance (Int)	83 %	58 %
GR	Glare Reduction	91 %	90 %
T	Total Solar Transmittance	12 %	9 %
A	Total Solar Absorbtance	41 %	47 %
R	Total Solar Reflectance	47 %	44 %
TSER	Total Solar Energy Rejected	77 %	67 %
NIRB	NIR Block at 1025nm	90 ± 3.0 %	NA
LE	Luminous Efficacy	0.30	0.21
U	Winter Median U-Value	1.12 %	NA
E	Emissivity	0.87	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.27	0.38
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.23	0.33

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Privacy & Speciality Films

Matte White

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	66 %	60 %
VLR-E	Visible Light Reflectance Ext	21 %	26 %
VLR-I	Visible Light Reflectance (Int)	22 %	9 %
GR	Glare Reduction	28 %	26 %
T	Total Solar Transmittance	60 %	52 %
A	Total Solar Absorbtance	22 %	27 %
R	Total Solar Reflectance	18 %	21 %
TSER	Total Solar Energy Rejected	34 %	36 %
NIRB	NIR Block at 1025nm	40 ± 3.0 %	NA
LE	Luminous Efficacy	0.87	0.81
U	Winter Median U-Value	1.09 %	0.45
E	Emissivity	0.85	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.76	0.74
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.66	0.64

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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Privacy & Speciality Films

Matte Bronze

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	35 %	32 %
VLR-E	Visible Light Reflectance Ext	7 %	16 %
VLR-I	Visible Light Reflectance (Int)	9 %	8 %
GR	Glare Reduction	62 %	60 %
T	Total Solar Transmittance	43 %	34 %
A	Total Solar Absorbtance	46 %	51 %
R	Total Solar Reflectance	11 %	15 %
TSER	Total Solar Energy Rejected	44 %	38 %
NIRB	NIR Block at 1025nm	40 ± 3.0 %	NA
LE	Luminous Efficacy	0.54	0.45
U	Winter Median U-Value	1.14 %	NA
E	Emissivity	0.86	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.65	0.71
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.56	0.62

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Privacy & Speciality Films

Matte Grey

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	35 %	32 %
VLR-E	Visible Light Reflectance Ext	7 %	16 %
VLR-I	Visible Light Reflectance (Int)	9 %	8 %
GR	Glare Reduction	62 %	60 %
T	Total Solar Transmittance	43 %	34 %
A	Total Solar Absorbtance	46 %	51 %
R	Total Solar Reflectance	11 %	15 %
TSER	Total Solar Energy Rejected	44 %	38 %
NIRB	NIR Block at 1025nm	40 ± 3.0 %	NA
LE	Luminous Efficacy	0.54	0.45
U	Winter Median U-Value	1.14 %	0.48
E	Emissivity	0.86	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.65	0.71
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.56	0.62

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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HI-TECH FILMS

Privacy & Speciality Films

Matte Silver

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	19 %	18 %
VLR-E	Visible Light Reflectance Ext	54 %	54 %
VLR-I	Visible Light Reflectance (Int)	38 %	38 %
GR	Glare Reduction	79 %	78 %
T	Total Solar Transmittance	15 %	14 %
A	Total Solar Absorbtance	38 %	43 %
R	Total Solar Reflectance	47 %	43 %
TSER	Total Solar Energy Rejected	75 %	64 %
NIRB	NIR Block at 1025nm	80 ± 3.0 %	NA
LE	Luminous Efficacy	0.66	0.44
U	Winter Median U-Value	1.05 %	NA
E	Emissivity	0.70	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.29	0.41
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.25	0.36

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Privacy & Speciality Films

2 MIL CW FILM

Series	Privacy & Speciality

Construction:

Thickness	2 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	89 %	80 %
VLR-E	Visible Light Reflectance Ext	6 %	13 %
VLR-I	Visible Light Reflectance (Int)	7 %	8 %
GR	Glare Reduction	2 %	1 %
T	Total Solar Transmittance	81 %	69 %
A	Total Solar Absorbtance	13 %	20 %
R	Total Solar Reflectance	6 %	11 %
TSER	Total Solar Energy Rejected	15 %	24 %
NIRB	NIR Block at 1025nm	14 ± 3.0 %	NA
LE	Luminous Efficacy	0.91	0.91
U	Winter Median U-Value	1.14 %	0.49
E	Emissivity	0.86	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.98	0.88
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.85	0.76

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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DESIGNER
(SPECIALITY)
FILMS

Designer (Speciality) Films

Graphic Blue 35

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	36 %	33 %
VLR-E	Visible Light Reflectance Ext	7 %	8 %
VLR-I	Visible Light Reflectance (Int)	5 %	12 %
GR	Glare Reduction	60 %	59 %
T	Total Solar Transmittance	55 %	42 %
A	Total Solar Absorbtance	38 %	46 %
R	Total Solar Reflectance	7 %	12 %
TSER	Total Solar Energy Rejected	34 %	34 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.47	0.43
U	Winter Median U-Value	1.14 %	NA
E	Emissivity	0.86	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.76	0.76
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.66	0.66

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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HI-TECH FILMS

Designer (Speciality) Films

Graphic Yellow 80

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	83 %	75 %
VLR-E	Visible Light Reflectance Ext	7 %	14 %
VLR-I	Visible Light Reflectance (Int)	7 %	9 %
GR	Glare Reduction	8 %	7 %
T	Total Solar Transmittance	72 %	61 %
A	Total Solar Absorbtance	22 %	28 %
R	Total Solar Reflectance	6 %	11 %
TSER	Total Solar Energy Rejected	22 %	26 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.92	0.88
U	Winter Median U-Value	1.13 %	0.49
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.90	0.85
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.78	0.74

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Designer (Speciality) Films

Graphic Red 20

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	23 %	21 %
VLR-E	Visible Light Reflectance Ext	4 %	12 %
VLR-I	Visible Light Reflectance (Int)	4 %	8 %
GR	Glare Reduction	75 %	74 %
T	Total Solar Transmittance	59 %	45 %
A	Total Solar Absorbtance	35 %	43 %
R	Total Solar Reflectance	6 %	12 %
TSER	Total Solar Energy Rejected	31 %	28 %
NIRB	NIR Block at 1025nm	15 ± 3.0 %	NA
LE	Luminous Efficacy	0.29	0.25
U	Winter Median U-Value	1.13 %	0.49
E	Emissivity	0.89	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	0.80	0.83
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	0.69	0.72

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Designer (Speciality) Films

ICE CUBE

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	NA	NA
VLR-E	Visible Light Reflectance Ext	NA	NA
VLR-I	Visible Light Reflectance (Int)	NA	NA
GR	Glare Reduction	NA	NA
T	Total Solar Transmittance	NA	NA
A	Total Solar Absorbtance	NA	NA
R	Total Solar Reflectance	NA	NA
TSER	Total Solar Energy Rejected	NA	NA
NIRB	NIR Block at 1025nm	NA	NA
LE	Luminous Efficacy	NA	NA
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	NA	NA
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	NA	NA

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Designer (Speciality) Films

ICE LINE

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	NA	NA
VLR-E	Visible Light Reflectance Ext	NA	NA
VLR-I	Visible Light Reflectance (Int)	NA	NA
GR	Glare Reduction	NA	NA
T	Total Solar Transmittance	NA	NA
A	Total Solar Absorbtance	NA	NA
R	Total Solar Reflectance	NA	NA
TSER	Total Solar Energy Rejected	NA	NA
NIRB	NIR Block at 1025nm	NA	NA
LE	Luminous Efficacy	NA	NA
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	NA	NA
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	NA	NA

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

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Designer (Speciality) Films

ICE BLINDS

Series	Designer (Speciality)

Construction:

Thickness	1 mil
Metal	Metal Free
Adhesive	Pressure Sensitive

Performance:		Single Pane	Dual Pane
VLT	Visible Light Transmission	NA	NA
VLR-E	Visible Light Reflectance Ext	NA	NA
VLR-I	Visible Light Reflectance (Int)	NA	NA
GR	Glare Reduction	NA	NA
T	Total Solar Transmittance	NA	NA
A	Total Solar Absorbtance	NA	NA
R	Total Solar Reflectance	NA	NA
TSER	Total Solar Energy Rejected	NA	NA
NIRB	NIR Block at 1025nm	NA	NA
LE	Luminous Efficacy	NA	NA
U	Winter Median U-Value	NA	NA
E	Emissivity	NA	NA
UVR	Ultraviolet Rejected	>99 %	>99 %
SC	Shading Coefficient	NA	NA
UVT	Ultraviolet Transmittance	<1 %	<1 %
SHGC(g)	Solar Heat Gain Coefficient	NA	NA

***Single Pane - 1/8th inch clear glass (3 mm)*

***Dual Pane - 3 MM + 3 MM clear glass with gap of 6 mm between two glasses and gap filled with air.*

Published values are representative of typical production runs and are subject to normal manufacturing tolerances within industry standards.

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