

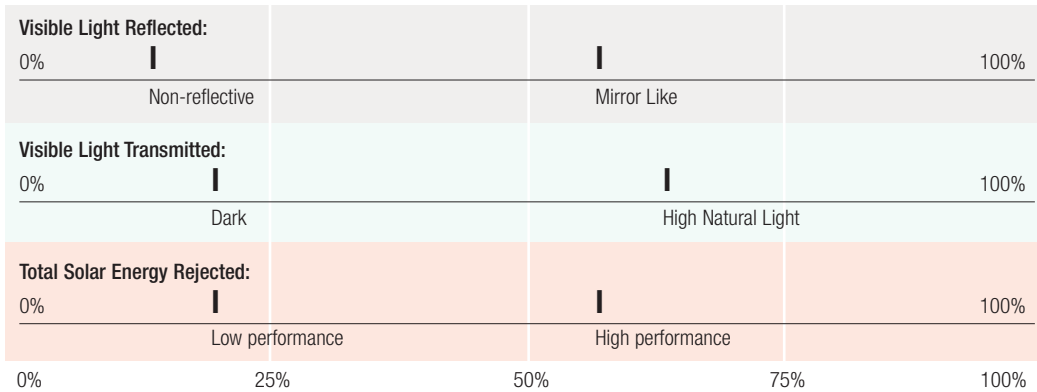


Comfort
and Safety
At work and at home

How to use this guide

Key Property Quick Reference

The three values indicated below are the key to getting an overall feel for any window film. These values have been highlighted in the specification data tables for convenient quick reference. Note that in the data tables there is a Visible Light Reflected value for both the interior surface of the glass and the exterior surface of the glass.



Glass Properties

The Glass Properties table presents properties for the four basic glass configurations with no film attached. This table can be useful as a point of reference when comparing properties from the window film tables. In the window film tables you will find properties for the films attached to each of these types of glass configurations.

Your local 3M Accredited Installer can offer you support and provide samples to assist you in your film selection. Before finalising a film specification for a project please contact your local 3M Accredited Installer to ensure that the preferred product is suitable for your particular application.

Glass Properties

Glass Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value w/m^2K	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked
		Reflected (interior)	Reflected (exterior)	Transmitted							
CLEAR	0.94	8%	8%	88%	18%	0.82	6.02	NA	NA	NA	38%
TINTED	0.69	5%	5%	50%	40%	0.60	6.02	NA	NA	NA	81%
DOUBLE CLEAR	0.81	14%	14%	78%	30%	0.70	2.90	NA	NA	NA	NA
DOUBLE TINTED	0.55	13%	8%	45%	52%	0.48	2.84	NA	NA	NA	NA



CLEAR SINGLE GLAZING



TINTED SINGLE GLAZING



CLEAR DOUBLE GLAZING



TINTED DOUBLE GLAZING

Explanation of properties

Shading Coefficient: A ratio that describes the film/glazing performance over the entire solar spectrum. The lower the value the greater the films shading effect.

Visible light reflected: Percentage of visible light reflected from the film/glazing surface.

Visible light transmitted: Percentage of visible light allowed to pass through the film/glazing.

SHGC: Solar Heat Gain Coefficient: The fraction of incident solar radiation admitted through a window, both directly transmitted and absorbed and subsequently released inward. The lower the value the better.

U-value: Describes the amount of heat energy that is conducted through the film/glazing.

Heat Gain Reduction: The percentage reduction of solar energy that is allowed through the filmed glazing when compared to the same unfilmed glazing system.

Luminous Efficacy: When applied to glass, defined as the ratio of visible light transmission to shading coefficient.

Heat Loss Reduction: The percentage of heat energy that is prevented from conducting out through a filmed glazing system when compared to the same unfilmed glazing system.

Glare Reduction: The percentage reduction in glare of the filmed glazing when compared to the same unfilmed glazing. Related to visible light transmission.

UV Blocked: Percentage of the total UV (Ultra violet) radiation blocked by film/glazing.

Total Solar Energy Rejected: The percentage of the total solar energy that the film/glazing blocks.

IR Rejection: Measured from 900 - 1100nm.

References:

ASTM E-308 Standard Recommended Practice for Spectrophotometry and Description of Colour in CIE 1931 System. ASTM E-903 Standard Methods of Test for Solar Absorbance, Reflectance and Transmittance of Materials Using Integrating Spheres. The 1985 American Society for Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Handbook of Fundamentals. Window 4.0, A Computer Tool for Analyzing Window Thermal Performance, Lawrence Berkeley Laboratory.

Windows to the Future



As a leader in both adhesive and film technologies, 3M brings together these disciplines to create the finest products available for commercial, government and residential buildings.

Our films reduce up to 99.9% of the sun's ultraviolet rays and reject up to 83% of the solar heat that may otherwise come through a window.

Providing an abundance of natural light into buildings is a great way to conserve energy. But sunlight can create excessive heat and uncomfortable hot spots, fades valuable furnishings, creates computer screen glare and contains harmful UV rays.

Whether the buildings are high-rise or low-rise, 3M™ Sun Control Window Films help to control energy costs and provide tenants with a more comfortable environment.



Energy Efficiency

A National Strategy on Energy Efficiency program, released by the Australian government in 2009, highlights a great need for improving building's energy efficiency. 3M Sun Control Window Films provides an easy solution for significantly lowering your energy bills while increasing your comfort.

These films reject up to 83% of the solar heat which means that less heat enters the building and the rooms stay at a more even and moderate temperature. This means that air conditioning systems can work more efficiently, reducing the energy costs and contributing greatly to the building's energy efficiency.

"The application of film can positively contribute to a building's energy rating as well as increase the value of the building."



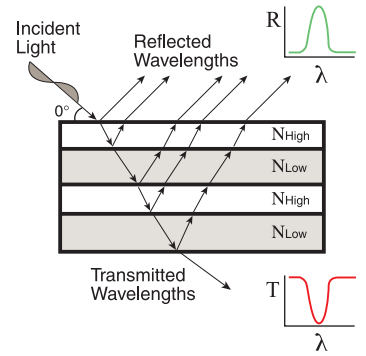
*Excerpt from WERS for Films.



Prestige Series Films

Prestige Series are a spectrally selective, non-metallised, solar control range of films designed to give exceptionally low reflectivity and an optimized balance of performance and natural light. Prestige Series uses a whole new technology in the reflection of radiant energy, the multi-layer optical film. This film consists of over 200 layers that bend and reflect light, progressively reflecting off the unwanted wavelengths (Infrared) while allowing natural light to pass through (see illustration to the right). This unique design gives increased performance when the sun is at an angle to your glass in the hottest parts of the day. Therefore, Total Solar Energy Rejected figures are reported at a 60° angle in the data table.

One of the standout features of the Prestige Series window films is that they are not metallised. No metal means no corrosion and no mobile phone signal interference. It also gives the Prestige Series superior clarity. Prestige Series films block 97% of Infrared heat and 99.9% of Ultraviolet radiation, providing increased comfort and safety.



Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected @60°/Perpendicular	SHGC	U Value $\frac{W}{m^2K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked	Luminous Efficacy	IR Rejected
			Reflected (interior)	Reflected (exterior)	Transmitted									
CLEAR	Prestige 40	0.47	6%	7%	39%	66% / 59%	0.41	5.62	50%	3%	56%	99.9%	0.83	97%
	Prestige 50	0.51	8%	9%	50%	63% / 56%	0.44	5.62	46%	3%	43%	99.9%	0.98	97%
	Prestige 60	0.55	8%	8%	61%	61% / 52%	0.48	5.62	41%	3%	31%	99.9%	1.11	97%
	Prestige 70	0.58	9%	9%	68%	59% / 50%	0.50	5.62	38%	3%	23%	99.9%	1.17	97%
TINTED	Prestige 40	0.43	6%	6%	23%	67% / 63%	0.37	5.62	41%	3%	57%	99.9%	0.53	97%
	Prestige 50	0.46	7%	6%	30%	66% / 60%	0.40	5.62	37%	3%	44%	99.9%	0.65	97%
	Prestige 60	0.48	7%	6%	36%	63% / 58%	0.42	5.62	34%	3%	32%	99.9%	0.75	97%
	Prestige 70	0.5	8%	6%	41%	63% / 57%	0.43	5.62	32%	3%	23%	99.9%	0.82	97%
DOUBLE CLEAR	Prestige 40	0.59	8%	14%	35%	54% / 49%	0.51	2.67	27%	0%	56%	99.9%	0.59	97%
	Prestige 50	0.61	10%	16%	44%	53% / 47%	0.53	2.67	25%	0%	44%	99.9%	0.72	97%
	Prestige 60	0.63	11%	15%	54%	54% / 45%	0.55	2.67	22%	0%	32%	99.9%	0.86	97%
	Prestige 70	0.64	13%	16%	61%	50% / 44%	0.56	2.61	21%	2%	23%	99.9%	0.95	97%
DOUBLE TINTED	Prestige 40	0.45	7%	8%	21%	64% / 61%	0.39	2.67	24%	0%	56%	99.9%	0.47	97%
	Prestige 50	0.46	9%	9%	27%	64% / 60%	0.40	2.67	22%	0%	43%	99.9%	0.59	97%
	Prestige 60	0.47	10%	8%	32%	64% / 59%	0.41	2.67	20%	0%	32%	99.9%	0.68	97%
	Prestige 70	0.48	12%	9%	37%	62% / 58%	0.42	2.61	19%	2%	22%	99.9%	0.77	97%

Ceramic Series Films





3M® Ceramic Series films bring you the three virtues that are most important: low reflectivity, high clarity and outstanding heat reduction. So you'll save energy while keeping your interior cool and looking beautiful.

Using nanotechnology we've created ceramics so fine they are not only invisible to the naked eye they are imperceptible with an ordinary microscope. These ceramics allow us to create a film that is tough, won't corrode and is so clear your view will remain beautiful.

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\frac{W}{m^2K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Block	IR Rejected
			Reflected (interior)	Reflected (exterior)	Transmitted								
CLEAR	Ceramic 30	0.47	15%	17%	36%	59%	0.41	5.79	50%	0%	60%	99%	84%
	Ceramic 40	0.54	12%	14%	44%	53%	0.47	5.85	43%	0%	50%	99%	78%
	Ceramic 50	0.61	10%	12%	53%	47%	0.53	5.85	35%	0%	40%	99%	68%
TINTED	Ceramic 30	0.43	15%	9%	21%	63%	0.38	5.79	40%	0%	55%	99%	84%
	Ceramic 40	0.47	11%	8%	27%	59%	0.41	5.85	34%	0%	44%	99%	78%
	Ceramic 50	0.52	9%	7%	32%	55%	0.45	5.85	28%	0%	33%	99%	68%
DOUBLE CLEAR	Ceramic 30	0.58	16%	22%	32%	50%	0.50	2.67	28%	1%	60%	99%	84%
	Ceramic 40	0.62	14%	20%	40%	46%	0.54	2.67	23%	1%	50%	99%	78%
	Ceramic 50	0.66	12%	18%	47%	43%	0.57	2.67	18%	1%	40%	99%	68%
DOUBLE TINTED	Ceramic 30	0.44	16%	11%	19%	62%	0.38	2.67	25%	1%	60%	99%	84%
	Ceramic 40	0.46	13%	10%	24%	60%	0.40	2.67	21%	1%	50%	99%	78%
	Ceramic 50	0.49	11%	9%	28%	58%	0.43	2.67	13%	1%	40%	99%	68%





Night Vision Films

Night Vision Films offer a strong combination of attractive tones, low or high reflectivity, variable light transmissions and high performance sun control features. The warm, natural hues invite warmth and beauty to any room. The Night Vision series utilise unique patented 3M carbon pigment technology that enhances the colour stability in the films.

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\frac{W}{m^2K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Block	Luminous Efficacy
			Reflected (interior)	Reflected (exterior)	Transmitted								
 CLEAR	Night Vision 15	0.33	11%	39%	15%	71%	0.29	5.56	64%	4%	83%	99%	0.5
	Night Vision 25	0.44	7%	19%	24%	61%	0.38	5.68	52%	2%	73%	99%	0.6
	Night Vision 35	0.56	7%	13%	36%	51%	0.49	5.85	40%	1%	59%	99%	0.7
 TINTED	Night Vision 15	0.36	11%	17%	9%	70%	0.31	5.56	51%	4%	82%	99%	0.3
	Night Vision 25	0.41	7%	10%	14%	64%	0.36	5.68	43%	2%	74%	99%	0.4
	Night Vision 35	0.5	6%	8%	22%	57%	0.43	5.85	32%	1%	58%	99%	0.5
 DOUBLE CLEAR	Night Vision 15	0.46	11%	40%	14%	60%	0.40	2.61	43%	3%	83%	99%	0.4
	Night Vision 25	0.56	8%	24%	22%	51%	0.49	2.66	29%	1%	72%	99%	0.4
	Night Vision 35	0.63	8%	19%	32%	45%	0.55	2.69	21%	0%	60%	99%	0.6
 DOUBLE TINTED	Night Vision 15	0.37	11%	17%	8%	68%	0.32	2.61	37%	3%	82%	99%	0.3
	Night Vision 25	0.43	8%	12%	13%	63%	0.37	2.66	27%	1%	73%	99%	0.4
	Night Vision 35	0.48	8%	10%	19%	59%	0.42	2.69	18%	0%	60%	99%	0.5

Neutral Films

With an aesthetically pleasing neutral appearance this sun control film series offers a unique combination of low reflectivity and high performance. They have a neutral/gray colour is due to the metal coating and will not fade or change colour. These film offers 3M's unique abrasion resistant coating for added durability.

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\frac{W}{m^2K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked
			Reflected (interior)	Reflected (exterior)	Transmitted							
 CLEAR	Neutral 20	0.39	17%	17%	16%	66%	0.34	6.02	59%	0%	82%	99%
	Neutral 35	0.51	16%	20%	37%	56%	0.44	6.02	45%	0%	58%	99%
	Neutral 50	0.66	11%	15%	51%	43%	0.57	6.02	30%	0%	42%	98%
	Neutral 70	0.76	7%	9%	66%	34%	0.66	6.02	19%	0%	25%	98%
 TINTED	Neutral 20	0.37	17%	8%	9%	68%	0.32	6.02	46%	0%	82%	99%
	Neutral 35	0.45	15%	9%	22%	61%	0.39	6.02	35%	0%	56%	99%
	Neutral 50	0.84	9%	6%	25%	58%	0.42	6.02	30%	0%	50%	99%
	Neutral 70	0.61	5%	6%	41%	47%	0.53	6.02	12%	0%	18%	99%
 DOUBLE CLEAR	Neutral 20	0.56	18%	21%	14%	51%	0.49	2.84	31%	0%	82%	99%
	Neutral 35	0.58	17%	24%	33%	50%	0.50	2.84	28%	0%	58%	99%
	Neutral 50	0.65	13%	20%	45%	43%	0.57	2.84	20%	0%	42%	99%
	Neutral 70	0.73	10%	15%	59%	37%	0.63	2.84	10%	0%	24%	98%
 DOUBLE TINTED	Neutral 20	0.41	18%	11%	9%	64%	0.36	2.84	25%	0%	80%	99%
	Neutral 35	0.43	16%	10%	19%	63%	0.37	2.84	22%	0%	58%	99%
	Neutral 50	0.48	12%	9%	28%	58%	0.42	2.84	13%	0%	38%	99%
	Neutral 70	0.52	9%	8%	36%	55%	0.45	2.84	5%	0%	20%	99%

Silver 15 Plastic

3M® Sun Control film Silver 15 Plastic is suitable to most of the polycarbonate (PC) and acrylic (PMMA) surface materials used on building glazing like Polycarbonate and most of the Acrylic substrates (Perspex, Plexiglas etc.). Protects plastic surface materials from weathering damage.

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\frac{W}{m^2K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Block	Luminous Efficacy
			Reflected (interior)	Reflected (exterior)	Transmitted								
4mm Poly-carbonate	No Film	0.98	11%	NA	83%	15%	0.85	NA	NA	NA	NA	NA	NA
	Plastic S15	0.21	65%	NA	14%	83%	0.17	NA	NA	NA	NA	99.0%	NA

Classic

The Classic Films deliver a wide range of solar heat reduction properties, glare control features, variable light transmissions and reflectivity levels with UV protection for use in commercial and residential applications.

The Classic range includes Silver, Black, Amber and Low Emissivity to provide a wide selection of films that vary in colour, shades and price.

Classic Films

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value W/m^2K	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked
			Reflected (interior)	Reflected (exterior)	Transmitted							
CLEAR	Colour Stable 5	0.48	5%	5%	7%	58%	0.42	NA	49%	NA	91%	99%
	Colour Stable 20	0.55	5%	5%	16%	52%	0.48	NA	41%	NA	83%	99%
	Colour Stable 35	0.7	6%	6%	38%	39%	0.61	NA	25%	NA	56%	98%
	Colour Stable 50	0.77	7%	7%	51%	33%	0.67	NA	18%	NA	42%	98%
	Black Chrome 10	0.34	18%	25%	11%	70%	0.30	5.74	64%	1%	88%	99%
	Black Chrome 20	0.37	25%	21%	17%	68%	0.32	5.40	61%	7%	81%	99%
	Black Chrome 35	0.5	14%	13%	30%	57%	0.43	5.57	47%	4%	66%	99%
	Black Chrome 40	0.6	8%	10%	41%	48%	0.52	5.40	36%	7%	54%	99%
	FX HP 5	0.54	5%	5%	3%	53%	0.47	5.91	43%	2%	97%	99%
	FX HP 20	0.59	9%	5%	23%	49%	0.51	5.79	37%	4%	74%	99%
	FX HP 30	0.63	8%	6%	31%	45%	0.55	5.91	33%	2%	65%	99%
	FX HP 35	0.67	8%	7%	41%	42%	0.58	5.91	29%	2%	54%	99%
	FX HP 50	0.69	8%	8%	49%	40%	0.60	5.91	27%	2%	45%	99%
	Amber LowE 35	0.29	59%	56%	31%	75%	0.25	4.20	69%	30%	65%	99%
	Silver P18 ARL	0.26	60%	58%	19%	77%	0.23	5.40	72%	10%	78%	99%
	Nickel 50	0.49	NA	23%	48%	57%	0.43	5.40	48%	11%	45%	99%
	Amber 35	0.3	65%	55%	30%	74%	0.26	5.40	68%	10%	66%	99%
	Silver 35	0.4	NA	42%	33%	65%	0.35	5.51	57%	8%	63%	98%
	Affinity AF15	0.24	25%	58%	9%	79%	0.21	5.68	74%	2%	90%	99%
Affinity AF30	0.45	19%	29%	33%	61%	0.39	5.33	52%	2%	63%	99%	
TINTED	Colour Stable 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Colour Stable 20	0.5	4%	4%	10%	57%	0.43	6.02	34%	0%	80%	99%
	Colour Stable 35	0.59	5%	5%	22%	49%	0.51	6.02	22%	0%	56%	99%
	Colour Stable 50	0.63	5%	5%	30%	45%	0.55	6.02	17%	0%	41%	99%
	Black Chrome 10	0.36	18%	12%	7%	69%	0.31	5.74	51%	1%	87%	99%
	Black Chrome 20	0.41	25%	15%	12%	64%	0.36	5.43	46%	6%	81%	99%
	Black Chrome 35	0.45	14%	8%	18%	61%	0.39	5.57	38%	4%	66%	99%
	Black Chrome 40	0.51	8%	6%	25%	55%	0.45	5.40	30%	7%	50%	99%
	FX HP 5	0.48	5%	5%	2%	58%	0.42	5.91	34%	0%	96%	99%
	FX HP 20	0.51	9%	5%	14%	56%	0.44	5.79	30%	0%	74%	99%
	FX HP 30	0.54	8%	5%	19%	53%	0.47	5.91	26%	0%	64%	99%
	FX HP 35	0.56	8%	5%	25%	51%	0.49	5.91	23%	0%	53%	99%
	FX HP 50	0.58	7%	6%	29%	50%	0.50	5.91	21%	0%	45%	99%
	Amber LowE 35	0.3	58%	18%	19%	74%	0.26	4.20	57%	30%	62%	99%
	Silver P18 ARL	0.3	60%	20%	10%	74%	0.26	5.40	57%	10%	80%	99%
	Nickel 50	0.42	NA	10%	27%	63%	0.37	5.40	39%	11%	45%	99%
	Amber 35	0.33	65%	22%	18%	71%	0.29	5.40	52%	10%	64%	99%
	Silver 35	0.38	NA	16%	18%	67%	0.33	5.51	45%	0%	64%	98%
	Affinity AF15	0.31	25%	24%	5%	73%	0.27	5.68	58%	2%	91%	99%
Affinity AF30	0.42	19%	14%	20%	63%	0.37	5.33	42%	2%	62%	99%	

Warranty and Maintenance. When installed by a 3M Accredited Installer, 3M Window Films are backed with a comprehensive warranty of up to 15 years for Commercial and a limited lifetime warranty for Residential applications. 3M Window Films can be cleaned using the same non-abrasive cleaning methods as are used on normal glass.



Classic Films continued

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value W/m^2K	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked
			Reflected (interior)	Reflected (exterior)	Transmitted							
DOUBLE CLEAR	Colour Stable 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Colour Stable 20	0.65	13%	13%	14%	45%	0.55	2.84	19%	0%	82%	99%
	Colour Stable 35	0.71	13%	13%	34%	38%	0.62	2.84	11%	0%	57%	99%
	Colour Stable 50	0.73	14%	14%	46%	37%	0.63	2.84	9%	0%	42%	99%
	Black Chrome 10	0.5	19%	28%	10%	57%	0.43	2.67	39%	1%	87%	99%
	Black Chrome 20	0.47	25%	21%	13%	59%	0.41	2.56	36%	4%	81%	99%
	Black Chrome 35	0.6	15%	19%	27%	48%	0.52	2.61	26%	2%	66%	99%
	Black Chrome 40	0.65	10%	16%	37%	43%	0.57	2.56	19%	4%	53%	99%
	FX HP 5	0.64	5%	12%	3%	44%	0.56	2.73	21%	0%	96%	99%
	FX HP 20	0.66	9%	13%	20%	43%	0.57	2.67	19%	0%	75%	99%
	FX HP 30	0.68	9%	13%	28%	41%	0.59	2.73	16%	0%	65%	99%
	FX HP 35	0.7	10%	14%	37%	39%	0.61	2.73	14%	0%	53%	99%
	FX HP 50	0.7	10%	15%	43%	39%	0.61	2.73	14%	0%	46%	99%
	Amber LowE 35	0.35	60%	54%	29%	70%	0.30	2.27	57%	20%	63%	99%
	Silver P18 ARL	0.34	61%	55%	17%	70%	0.30	2.67	58%	6%	78%	99%
	Nickel 50	0.54	NA	27%	43%	53%	0.47	2.67	33%	6%	46%	99%
	Amber 35	0.37	66%	53%	28%	68%	0.32	2.67	54%	6%	64%	99%
	Silver 35	0.45	NA	45%	30%	61%	0.39	2.67	44%	6%	62%	98%
	Affinity AF15	0.37	26%	57%	8%	68%	0.32	2.67	54%	0%	90%	99%
	Affinity AF30	0.53	20%	32%	30%	54%	0.46	2.55	35%	0%	62%	99%
DOUBLE TINTED	Colour Stable 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Colour Stable 20	0.51	6%	6%	8%	56%	0.44	NA	16%	0%	82%	99%
	Colour Stable 35	0.54	7%	7%	19%	53%	0.47	NA	11%	0%	57%	99%
	Colour Stable 50	0.56	7%	7%	26%	51%	0.49	NA	8%	0%	42%	99%
	Black Chrome 10	0.39	18%	13%	6%	66%	0.34	2.67	34%	1%	87%	99%
	Black Chrome 20	0.39	25%	11%	9%	66%	0.34	3.52	38%	5%	81%	99%
	Black Chrome 35	0.45	15%	10%	16%	61%	0.39	2.61	24%	2%	66%	99%
	Black Chrome 40	0.49	9%	9%	22%	58%	0.42	2.56	18%	4%	51%	99%
	FX HP 5	0.48	5%	7%	2%	58%	0.42	2.73	19%	0%	96%	99%
	FX HP 20	0.49	9%	8%	12%	57%	0.43	2.67	17%	0%	75%	99%
	FX HP 30	0.51	9%	8%	17%	56%	0.44	2.73	14%	0%	64%	99%
	FX HP 35	0.52	9%	8%	22%	55%	0.45	2.73	12%	0%	54%	99%
	FX HP 50	0.52	8%	8%	26%	55%	0.45	2.73	12%	0%	45%	99%
	Amber LowE 35	0.28	60%	22%	17%	76%	0.24	2.27	49%	20%	62%	99%
	Silver P18 ARL	0.28	60%	20%	9%	76%	0.24	2.67	49%	6%	80%	99%
	Nickel 50	0.4	NA	9%	24%	65%	0.35	2.67	29%	6%	44%	99%
	Amber 35	0.30	66%	22%	17%	74%	0.26	2.67	45%	6%	62%	99%
	Silver 35	0.34	NA	18%	18%	70%	0.30	2.67	38%	6%	60%	98%
	Affinity AF15	0.31	25%	23%	5%	73%	0.27	2.67	47%	0%	89%	99%
	Affinity AF30	0.41	20%	15%	18%	65%	0.36	2.55	31%	0%	62%	99%







Window Energy Rating Scheme (WERS) The Window Energy Rating Scheme enables windows to be rated for their energy saving impact on a building. Interest in energy efficiency and energy ratings is increasing as consumers and major tenants seek methods to become greener and reduce their energy costs. Visit www.wers.net for more information.







External Prestige Films

Enjoy the benefits of a world-class window film while leaving the beauty of your windows virtually unchanged. Because Prestige Exterior Series Window Films use no metals, they are not susceptible to corrosion in coastal environments and do not interfere with mobile phone reception. Other window films that reject heat tend to have high reflectivity, but not Prestige Series Window Films. They offer reflectivity that is actually lower than glass. A final key technical feature of the Prestige line of products is that they were designed to perform best when the sun is high, at the hottest parts of the day, so when the sun is working hardest our films are reflecting the most heat!

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\text{W/m}^2\text{K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked	Luminous Efficacy	IR Rejected
			Reflected (interior)	Reflected (exterior)	Transmitted									
 CLEAR	Exterior PR40X	0.38	5%	6%	42%	61%	0.39	5.79	53%	0%	53%	99.9%	1.10	97%
	Exterior PR70X	0.47	7%	7%	71%	52%	0.48	5.85	41%	0%	20%	99.9%	1.50	97%
	Exterior PR90X	0.63	9%	9%	88%	36%	0.64	5.85	21%	0%	1%	99.9%	1.40	97%
 TINTED	Exterior PR40X	0.31	5%	5%	25%	67%	0.33	5.79	47%	0%	53%	99.9%	0.80	97%
	Exterior PR70X	0.38	5%	6%	42%	61%	0.39	5.85	39%	0%	20%	99.9%	1.10	97%
	Exterior PR90X	0.48	6%	6%	53%	50%	0.5	5.85	21%	0%	1%	99.9%	1.10	97%
 DOUBLE CLEAR	Exterior PR40X	0.28	13%	7%	37%	71%	0.29	2.67	59%	1%	53%	99.9%	1.30	97%
	Exterior PR70X	0.39	14%	12%	63%	61%	0.39	2.67	45%	0%	20%	99.9%	1.60	97%
	Exterior PR90X	0.56	16%	15%	78%	45%	0.56	2.67	21%	1%	1%	99.9%	1.40	97%
 DOUBLE TINTED	Exterior PR40X	0.22	12%	6%	22%	77%	0.23	2.67	55%	0%	53%	99.9%	1.00	97%
	Exterior PR70X	0.29	13%	7%	38%	71%	0.29	2.67	43%	0%	20%	99.9%	1.30	97%
	Exterior PR90X	0.39	13%	9%	47%	60%	0.41	2.67	20%	0%	1%	99.9%	1.20	97%

External Films

For difficult to access glazing such as skylights the 3M External Series of films has a solution that offers very high heat rejection. These products normally have a thin adhesive for optimum clarity and a micro layer of metal evenly coated on the film to reflect the infrared solar radiation. Their main task is to help reduce the amount of heat coming into a building through the windows.

Glass Type	Film Type	Shading Coefficient	Visible Light			Total Solar Energy Rejected	SHGC	U Value $\text{W/m}^2\text{K}$	Heat Gain Reduction	Heat Loss reduction	Glare Reduction	UV Blocked
			Reflected (interior)	Reflected (exterior)	Transmitted							
 CLEAR	Silver 15 External	0.2	56%	63%	16%	83%	0.17	6.02	79%	0%	83%	99%
	Bronze 20 External	0.26	NA	32%	23%	77%	0.23	5.79	72%	0%	74%	99%
	Neutral 35 External	0.42	NA	35%	35%	63%	0.37	5.79	55%	0%	60%	99%
	Silver 35 External	0.42	NA	34%	36%	63%	0.37	5.79	55%	0%	59%	99%
 TINTED	Silver 15 External	0.19	23%	61%	10%	86%	0.14	5.79	77%	0%	84%	99%
	Bronze 20 External	0.22	NA	32%	14%	81%	0.19	5.79	70%	0%	74%	99%
	Neutral 35 External	0.47	NA	10%	26%	59%	0.41	5.79	36%	0%	51%	99%
	Silver 35 External	0.34	NA	34%	21%	70%	0.30	5.79	53%	0%	61%	99%
 DOUBLE CLEAR	Silver 15 External	0.15	55%	63%	15%	87%	0.13	2.84	81%	0%	81%	99%
	Bronze 20 External	0.19	NA	33%	21%	83%	0.17	2.67	77%	0%	73%	99%
	Neutral 35 External	0.33	NA	36%	32%	71%	0.29	2.67	59%	0%	59%	99%
	Silver 35 External	0.33	NA	35%	33%	71%	0.29	2.67	59%	0%	58%	99%
 DOUBLE TINTED	Silver 15 External	0.1	27%	62%	7%	91%	0.09	2.84	82%	0%	84%	99%
	Bronze 20 External	0.15	NA	32%	12%	87%	0.13	2.67	75%	0%	75%	99%
	Neutral 35 External	0.33	NA	11%	23%	71%	0.29	2.67	44%	0%	51%	99%
	Silver 35 External	0.25	NA	34%	19%	78%	0.22	2.67	58%	0%	60%	99%



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