3M | Building Solar Films

JESTAC





SELECTION GUIDE

3M Sun Control Window Films

Whether you're concerned about excessive heat, faded furnishings, glare or daytime privacy, we have a window film just for you.



Block out heat and improve comfort



Protect your furnishings from fading



Protect against skin cancer



Lower air-conditioning costs



Enhance daytime privacy



Reduce glare and improve screen viewing

Areas of glass application



Windows



Skylights



Balcony Doors



Car Porch Roofs

3M **Prestige** Series



- These spectrally-selective films maximize natural light and outperform other darker films in terms of heat rejection.
- The film uses metal-free nano-technology to create reflectivity that's lower than glass, so you get views with amazing clarity.
- Up to 97% infrared rejection (IR) providing energy savings and enhanced comfort*

*IR Rejection as measured from 900-1000nm

Product Performance and Technical Data

Glass Type (All 6mm)	Film Type	Visible Light			Total Solar Energy Rejected		Solar Heat Gain Coefficient	U Value	UV Light Rejected	Glare Reduction
		Reflected (Interior)	Reflected (Exterior)	Transmitted	Normal	60 Degree Angle				
Clear	PR20	5%	6%	21%	62%	65%	0.38	1.03	99.9%	76%
	PR40	7%	7%	39%	60%	66%	0.40	0.99	99.9%	55%
	PR50	7%	8%	50%	56%	63%	0.44	0.99	99.9%	44%
	PR60	8%	8%	60%	53%	61%	0.47	0.99	99.9%	32%
	PR70	9%	9%	69%	50%	59%	0.50	0.99	99.9%	22%
Tinted	PR20	5%	5%	13%	64%	67%	0.36	1.03	99.9%	76%
	PR40	6%	5%	24%	63%	67%	0.37	0.99	99.9%	55%
	PR50	6%	6%	30%	61%	66%	0.39	0.99	99.9%	43%
	PR60	7%	6%	36%	59%	63%	0.41	0.99	99.9%	32%
	PR70	7%	6%	42%	57%	63%	0.43	0.99	99.9%	22%
Double Clear	PR20	5%	13%	19%	50%	57%	0.51	0.47	99.9%	77%
	PR40	8%	14%	35%	49%	54%	0.51	0.47	99.9%	55%
	PR50	9%	15%	45%	47%	53%	0.53	0.47	99.9%	44%
	PR60	11%	15%	54%	46%	54%	0.54	0.47	99.9%	32%
	PR70	13%	15%	62%	44%	50%	0.56	0.47	99.9%	22%

*Performance data is generated on a 6mm glass using applicable industry test methods and standards.

PR60

PR70

PR20

PR40

PR50

Note: Exterior Series available for all except PR60.

3M Ceramic Architectural Series



- High visible light transmission providing excellent aesthetics.
- Non-metallized film with natural tone for amazing clarity.
- Up to 91% infrared rejection (IR) providing energy savings and enhanced comfort*

*IR Rejection as measured from 900-1000nm

Product Performance and Technical Data

Glass Type (All 6mm)	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient	U Value	UV Light Rejected	Glare Reduction
		Reflected (Interior)	Reflected (Exterior)	Transmitted					
Clear	CA35	6%	6%	37%	55%	0.45	1.02	99.8%	58%
	CA45	6%	6%	45%	52%	0.48	1.06	99.8%	49%
	CA60	7%	7%	62%	48%	0.53	1.06	99.7%	30%
Tinted	CA35	5%	6%	22%	60%	0.40	1.02	99.8%	58%
	CA45	5%	5%	27%	58%	0.42	1.06	99.9%	49%
	CA60	6%	6%	37%	55%	0.45	1.06	99.8%	30%
Double Clear	CA35	7%	13%	33%	44%	0.56	0.47	99.7%	58%
	CA45	8%	13%	40%	42%	0.58	0.48	99.8%	49%
	CA60	10%	14%	55%	41%	0.60	0.48	99.7%	30%

*Performance data is generated on a 6mm glass using applicable industry test methods and standards.

CA35

CA45

CA60

NV15



NV25



NV35



3M Night Vision Series



- These metallized films are excellent at reflecting the heat away from your windows.
- They provide privacy so no one can see into your room or building during the day.
- They also ensure clear, unobstructed views at night (for rooms with warm lighting only)

Product Performance and Technical Data

Glass Type (All 6mm)	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient	U Value	UV Light Rejected	Glare Reduction
		Reflected (Interior)	Reflected (Exterior)	Transmitted					
Clear	NV15	9%	35%	13%	72%	0.28	0.99	99.9%	85%
	NV25	9%	24%	24%	63%	0.37	1.01	99.9%	73%
	NV35	7%	14%	33%	54%	0.46	1.03	99.9%	63%
Tinted	NV15	9%	16%	8%	69%	0.31	0.99	99.9%	85%
	NV25	9%	12%	14%	64%	0.36	1.01	99.9%	73%
	NV35	7%	8%	20%	59%	0.41	1.03	99.9%	63%
Double Clear	NV15	9%	37%	12%	60%	0.40	0.47	99.9%	85%
	NV25	10%	28%	22%	53%	0.47	0.47	99.9%	73%
	NV35	8%	19%	30%	46%	0.54	0.47	99.9%	63%

*Performance data is generated on a 6mm glass using applicable industry test methods and standards.

3M

Neutral Series



- These high performing reflective films provide high heat and glare reduction for more comfort.
- They provide privacy so no one can see into your room or building during the day.

Product Performance and Technical Data

Glass Type (All 6mm)	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient	U Value	UV Light Rejected	Glare Reduction
		Reflected (Interior)	Reflected (Exterior)	Transmitted					
Clear	LE35	62%	58%	26%	77%	0.23	0.84	99%	71%
	P18AR	58%	56%	17%	77%	0.23	0.93	99%	81%
Tinted	LE35	62%	24%	15%	74%	0.26	0.84	99%	72%
	P18AR	58%	23%	10%	73%	0.27	0.93	99%	82%
Double Clear	LE35	63%	57%	24%	69%	0.31	0.42	99%	70%
	P18AR	58%	55%	15%	67%	0.33	0.45	99%	80%

*Performance data is generated on a 6mm glass using applicable industry test methods and standards.

Note: LE35 film has been tested to be effective at electromagnetic interference (EMI) shielding.
Test Reports are available upon request.

LE35



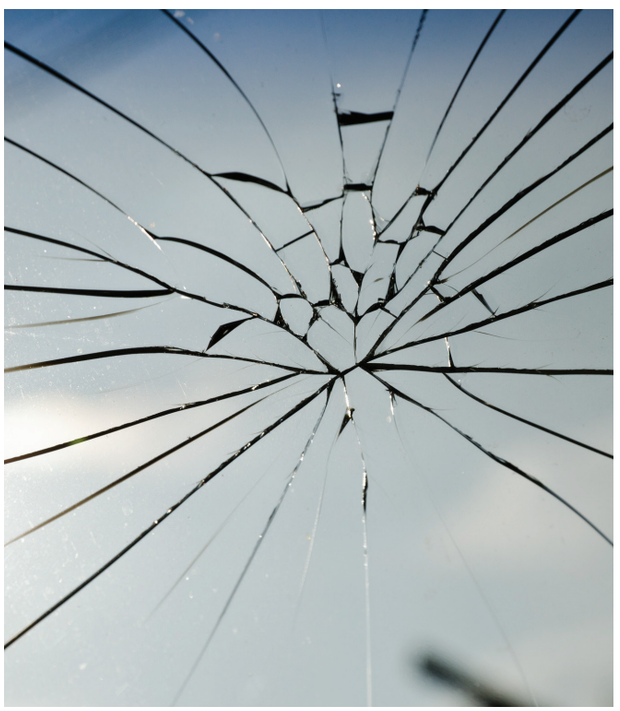
P18ARL



3M Safety Series

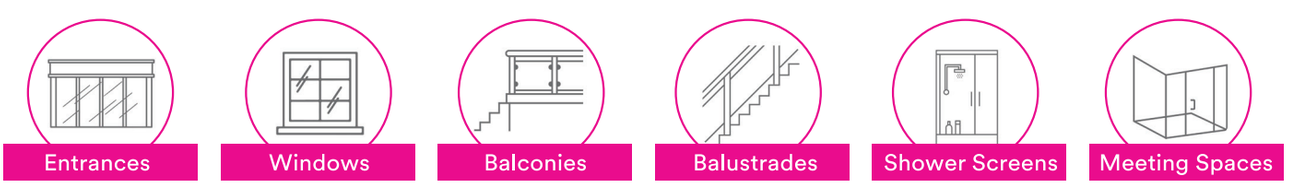
Protect Against Spontaneous Glass Breakage

Certified by TÜV SÜD PSB Singapore and compliant with SS 341 Safety Code



- 3M™ Safety & Security Window Films are clear, single-layer polyester films that use thickness to strengthen glass and hold shattered pieces together, reducing the risk of injury from flying shards.
- Commonly used in interior and architectural glass, they help mitigate safety risks from impact, spontaneous breakage, accidents, or blasts.
- For enhanced protection, performance can be further improved with 3M™ Impact Protection Attachment Systems.

Areas of glass application



Film Properties (nominal)

Glass Type	Film Thickness	Construction	Tensile Strength	Break Strength	Elongation at Break	Abrasion Resistance
Safety S40	4 mil (0.10mm)	Single ply	25,000 psi	100 lb/in	>125%	<5% haze increase
Safety S70	7 mil (0.18mm)	Single ply	25,000 psi	175 lb/in	>125%	<5% haze increase
Safety S80	8 mil (0.20mm)	Two ply	25,000 psi	200 lb/in	>125%	<5% haze increase

*Please refer to the latest 3M technical data sheet for more detailed product information and specifications.

3M Ultra Series

Shield Against Blasts and Explosions

Certified by TÜV SÜD PSB Singapore and compliant with SS 341 Safety Code



- The first of its kind, the 3M™ Ultra Series films are made from clear, tear resistant film.
- These films deliver superior performance over standard polyester films in blast and impact events; yet still maintain a high level of optical clarity.
- For enhanced protection, performance can be further improved with 3M™ Impact Protection Attachment Systems.

Film Properties (typical)

Film Thickness	8 mil (203µ) nominal*
Film Construction	Micro-layered
Tensile Properties (ASTM D882)	
Tensile Strength	31,500 psi
Break Strength	253 lbs/in
Elongation at Break	135%
Yield Strength	15,000 psi
Elongation at Yield	8%
Modulus	520 kpsi

*Total thickness with adhesive is 9 mil (230µ)

Other Physical Properties	
Graves Area Tear Resistance (ASTM D1004)	1,100 lbs%(MD) /1,050 lbs%(TD)
Puncture-Propagation-Tear Resistance (ASTM D2582)	9 lbf (MD) / 11 lbf (TD)
Puncture Strength (ASTM D4830)	190 lbf
Abrasion Resistance (ASTM D1044)	2.3% haze increase
Peel Strength (ASTM D3330)	9 lb/in
Flammability (ASTM E84)	Class A
Solar Properties - *film applied to 6mm clear glass*	
Visible Light Transmitted	87%
UV Light Rejected	99%

*Please refer to the latest 3M technical data sheet for more detailed product information and specifications.

Why Choose
3M Window Films

Best Window Film Adhesive
Fast-drying, optically clear, durable, and allows for clean removal.

Tested & Proven
3M Window Films have been rigorously tested and certified to meet international window film standards.

Peace of Mind
Comes with a comprehensive warranty of up to 15 years, backed by 3M Singapore.

3M Window Film Certifications

National Fenestration Rating Council®

ENERGY STAR

SINGAPORE GREEN BUILDING PRODUCT SGBC EXCELLENT

RECOMMENDED SKIN CANCER FOUNDATION

CAUTION: Although certain 3M™ Window Films help block a percentage of UVA and UVB radiation and may have received The Skin Cancer Foundation Seal of Recommendation, the efficacy of these films in protecting against skin cancer has not been tested by 3M and 3M™ WINDOW FILMS DO NOT PREVENT SKIN CANCER.

Why Choose JESTAC

Peace of Mind
Trusted 3M solutions backed by official warranties, certified installers, and reliable after-sales support.

Quality Workmanship
Precision installation by the largest in-house team, certified to ISO 9001 and IWFA installation standards.

Reliable Partner
A BCA-registered contractor with over 30 years of experience and long-term client partnerships.

Sustainable & Ethical Practices
Safety-first, BizSafe 3 compliant, Progressive Wage Mark accredited, and committed to responsible building solutions.

Accreditations

BCA Registered Contractor
SY06 Level 3 (5.0 mil)
CR06 Level 2 (1.6 mil)

Certified bizSAFE Level 3

INTERNATIONAL WINDOW FILM ASSOCIATION

ISO 9001 CERTIFIED

Accredited Certification Body
QS-1999-05

3M Authorised Distributor & Certified Window Film Applicator

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