

FILM SPECIFIERS GUIDE - Residential and Commercial Film Performance

FILM CODE AND COLOUR	TOTAL ENERGY REJECTION (HEAT)	SHGC <small>(see note 2)</small>	VISIBLE LIGHT TRANSMITTED	VISIBLE LIGHT REFLECTED (EXTERNAL)	ULTRA VIOLET REJECTED	SHADING CO-EFFICIENT	U-VALUE (W/M2.K)	GLARE REDUCTION	SOLAR ENERGY REFLECTED	SOLAR ENERGY ABSORBED	ESTIMATED FADE REDUCTION <small>(SEE NOTE 1)</small>	W.E.R.S. STAR RATING	
												C*	H*
SOLAR SERIES													
6mm Clear Glass	19%	0.8	88%	8%	38%	0.9	5.7	12%	7%	16%	32%		
R15 Bronze	76%	0.2	8%	18%	>98%	0.3	5.2	91%	34%	57%	82%		
R15 Grey	74%	0.3	7%	13%	>98%	0.3	5.2	92%	30%	61%	81%		
R20 Silver	79%	0.2	15%	60%	>98%	0.3	5.3	83%	55%	33%	81%	5	
R35 Silver	68%	0.3	28%	44%	>98%	0.4	5.3	68%	43%	35%	75%		
N1020 Neutral	63%	0.4	24%	28%	>98%	0.4	5.7	73%	26%	52%	75%		
N1020 Bronze	77%	0.2	19%	38%	>98%	0.3	5.3	78%	48%	39%	79%		
N1035 Neutral	53%	0.5	40%	18%	>98%	0.5	5.7	55%	14%	52%	69%	2.5	0.5
N1035 Bronze	62%	0.4	37%	25%	>98%	0.4	5.3	58%	35%	37%	72%	4	
N1050 Neutral	44%	0.6	48%	13%	>98%	0.6	5.7	45%	12%	40%	64%	2	0.5
N1065 Neutral	31%	0.7	63%	11%	>98%	0.8	5.7	28%	9%	30%	57%		
DL15 Bronze	61%	0.4	14%	9%	>98%	0.4	5.5	84%	15%	61%	77%		
DL15 Grey	58%	0.4	15%	9%	>98%	0.4	5.5	83%	15%	59%	76%	4	
RK20 Silver	81%	0.2	18%	63%	>98%	0.2	5.7	80%	65%	22%	81%		
NS10 Grey	73%	0.3	6%	13%	>98%	0.3	5.7	93%	20%	68%	81%	4	
NS18 Grey	62%	0.4	16%	12%	>98%	0.4	5.7	82%	11%	69%	75%	3	
NS28 Grey	56%	0.4	27%	13%	>98%	0.5	5.8	69%	11%	60%	70%	3.5	
V14 Sky Blue	78%	0.2	12%	54%	>98%	0.3	5.8	87%	50%	40%	81%		
V28 Sky Blue	65%	0.4	27%	34%	>98%	0.4	5.8	70%	33%	45%	75%	3.5	
SAFETY SERIES													
SCL (4) Clear	14%	0.9	87%	9%	>98%	1.0	6.3	1%	7%	7%	47%		
SCLERPS 4 - EXTERNAL	14%	0.9	87%	9%	>98%	1.0	6.3	1%	7%	7%	47%		
SSI (4) Silver	79%	0.2	15%	60%	>98%	0.2	5.3	83%	55%	33%	81%	5	
MASF 4	47%	0.5	36%	10%	>98%	0.6	5.8	60%	9%	52%	65%		
N1035 (4) Neutral	53%	0.5	35%	19%	>98%	0.5	5.7	60%	17%	48%	69%	2.5	0.5
N1050 (4) Neutral	44%	0.6	48%	13%	>98%	0.6	5.7	45%	12%	40%	64%	2	0.5
SCL (7) Clear	14%	0.9	87%	10%	>98%	1.0	6.3	1%	9%	7%	47%		
SCL (8) Clear	14%	0.9	87%	10%	>98%	1.0	5.9	1%	9%	7%	47%		
N1050 (8) Neutral	44%	0.6	48%	13%	>98%	0.6	5.7	45%	12%	40%	64%	2	0.5
SCL (11) Clear	14%	0.9	87%	10%	>98%	1.0	6.3	1%	9%	7%	47%		
MATT SERIES													
NRM PS (2) Translucent White	28%	0.7	69%	20%	>98%	0.8	6.2	22%	18%	15%	55%		
NRM MPS (3) Black Out	72%	0.3	0%	13%	>98%	0.3	6.2	100%	11%	89%	83%		
NRM WPS (3) White Out	78%	0.2	7%	58%	>98%	0.3	6.2	92%	49%	41%	83%		
DECORATIVE SERIES													
DUST ETCH SAND ETCH	INTERNAL DECORATIVE APPLICATION No solar performance figures available												
3M FILMS													
Dusted Crystal Frosted Crystal Coloured Crystal	INTERNAL DECORATIVE APPLICATION No solar performance figures available												

Note 1: The data in this column is a guide enabling an estimate only of fade reduction. As there are many variables that cause fading, it would be impossible to give an exact figure. The data in this column, therefore, does not constitute a warranty.

Note 2: This is not a weighted number. The SHGC number provided applies only to the film/glass combination.

* C = Cooling, H = Heating

Residential and Commercial, Safety and Security Film Physical Properties

Film Code	Film Thickness (Micron)	Appearance	Number of Layers	Tensile Strength (ASTM D882 - Pounds per Sq. Inch)	Break Strength (ASTM D882 - Pounds Force Per Inch Width)	Elongation at Break (ASTM D882 - Percent)	Peel Strength (ASTM D330 - Grams Per Inch Width)	Puncture Strength (ASTM D4830 - Pounds Force)
SCL SR PS4	100	CLEAR	SINGLE	33,100	132	167%	3200	74
R20 SR PS4	100	SILVER	DOUBLE	25,714	101	137%	3200	77
N1035 SR PS4	100	NEUTRAL	DOUBLE	25,714	101	137%	3200	77
N1050 SR PS4	100	NEUTRAL	DOUBLE	25,714	101	137%	3200	77
SCL SR PS7	175	CLEAR	SINGLE	27,614	193	211%	3200	121
SCL SR PS8	200	CLEAR	DOUBLE	29,505	235	140%	2850	146
N1050 SR PS8	200	NEUTRAL	DOUBLE	29,505	235	140%	2850	146
SCL SR PS11	275	CLEAR	DOUBLE	27,318	301	159%	1550	184

MEP Films Scratch Resistant Coating has been tested to ASTM D-1044. Using 500g weights and a CS-10F wheel. Haze increased by less than 5% after abrasion.

All MEP Films Safety and Security films utilise an acrylic pressure sensitive adhesive system and are manufactured to comply with Safety Glazing Standards AS/NZS 2208 (Human Impact) requirements.

MEP Films Safety and Security films conform to and have been tested to the following internationally recognised standards.

International Test Results

Personal Safety Glazing ANSI Z97.1 CPSC 16 CFR 1201 BS 6206 JIS A5759 GB 9962-88 EN 12600	Blast Hazard Mitigation GSA (Glazing Systems Subject to Airblast Loadings)	Windborne Debris Protection Dade County PA 201-94/PA 202-94 Pa 203-94	Burglary Resistance DIN 52290 Part 4 / Type A1 UL 972 ULC- S332	Physical Testing ASTM D 1929 (Self-Ignition Temp.) ASTM D 635 (Rate of Burn) ASTM E 84 (Surface Burning Char.) ASTM E 162 (Surface Flammability) ASTM E 1922/1004 (Tear Resistance) ASTM D 1044/1003 (Surface Abrasion Rst.) ASTM D 882 (Tensile Strength) ASTM D 3330 (Peel Strength) ASTM D 4830 (Puncture Strength) ASTM E 662 (Smoke O.D.)
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MEP Films glass treatment films are manufactured exclusively by CPFilms Inc., a Unit of Solutia. CPFilms Inc. is a member of the Association of Industrial Metallizers Coaters and Laminators. All data has been measured in accordance with AIMCAL standards. All values are averaged from routinely accumulated quality control data.

FILM SPECIFIERS GUIDE - Auto Film Performance

FILM CODE	COLOUR	TOTAL ENERGY REJECTION (HEAT)	VISIBLE LIGHT TRANSMITTED	VISIBLE LIGHT REFLECTED (EXTERNAL)	ULTRA VIOLET REJECTED	GLARE REDUCTION	NON METALLISED	VACUUM METALLISED	POROUS SPUTTERED	SCRATCH RESISTANT COATING	ADHESIVE TYPE
EMINM - NON METALLISED, LIFETIME WARRANTY											
AT EMINM 35	JADE	50%	35%	10%	>98%	60%	✓	-	-	✓	HPR
AT EMINM 17	DARK JADE	56%	17%	8%	>98%	80%	✓	-	-	✓	HPR
STEALTH - METALLISED , 10 YEAR WARRANTY											
ATR 30 CH	MEDUIM CHARCOAL	58%	30%	10%	>98%	65%	-	✓	-	✓	HPR
ATR 35AG	BLACK CHARCOAL	56%	35%	10%	>98%	60%	-	✓	-	✓	HPR
GRANGE - POROUS SPUTTERED, LIFETIME WARRANTY											
APT 05 GH	VERY DARK GREY	67%	5%	10%	>98%	95%	-	-	✓	✓	HPR
APT 18 GH	DARK GREY	66%	15%	11%	>98%	83%	-	-	✓	✓	HPR
APT 28 GH	MEDUIM DARK GREY	61%	24%	12%	>98%	73%	-	-	✓	✓	HPR
APT 38 GH	MEDIUM GREY	58%	35%	10%	>98%	60%	-	-	✓	✓	HPR
APT 50 GH	LIGHT GREY	51%	46%	10%	>98%	48%	-	-	✓	✓	HPR
ULTIMA - PREMIUM SPUTTERED, LIFETIME WARRANTY											
APTE 35 GH	SHADOW GREY	60%	35%	10%	>98%	60%	-	-	✓	✓	HPR
MAGNUM AUTO SECURITY FILM - METALLISED, 10 YEAR WARRANTY											
MASF 35	MEDIUM GREY	56%	35%	10%	>99%	60%	-	✓	-	✓	PS

All auto tints must comply with Local Regulations. Some tints may require special permits.

All data tested on Pilkington auto glass green 4mm with a 78% VLT.

HPR (High Performance Resin Adhesive) is a trademark of CPFilms.