

# FILM SPECIFIERS GUIDE - Residential and Commercial Film Performance

FILM CODE AND COLOUR	TOTAL ENERGY REJECTION (HEAT)	SHGC (see note 2)	VISIBLE LIGHT TRANSMITTED	VISIBLE LIGHT REFLECTED (EXTERNAL)	ULTRA VIOLET REJECTED	SHADING CO-EFFICIENT	U-VALUE (W/M2.K) (see note 3)	GLARE REDUCTION	SOLAR ENERGY REFLECTED	SOLAR ENERGY ABSORBED	ESTIMATED FADE REDUCTION (SEE NOTE 1)	W.E.R.S. STAR RATING	
												C*	H*
<b>SOLAR SERIES</b>													
6mm Clear Glass	17%	0.83	88%	8%	38%	0.94	5.85	0%	7%	16%	22%		
R15 Grey	74%	0.26	7%	13%	>98%	0.30	5.22	92%	30%	61%	81%		
R20 Silver	79%	0.21	15%	60%	>98%	0.25	5.28	83%	55%	33%	80%	★★★★	
N1020 Neutral	63%	0.37	24%	28%	>98%	0.42	5.68	73%	26%	52%	74%	★★☆	
N1020 Bronze	77%	0.23	19%	38%	>98%	0.28	5.28	78%	48%	39%	79%	★★	
N1035 Neutral	53%	0.47	40%	18%	>98%	0.53	5.68	55%	14%	52%	67%		
N1035 Bronze	62%	0.38	37%	25%	>98%	0.43	5.28	58%	35%	37%	70%	★★☆	
N1050 Neutral	44%	0.56	48%	13%	>98%	0.64	5.68	45%	12%	40%	63%	★☆☆	
N1065 Neutral	31%	0.69	63%	11%	>98%	0.80	5.68	28%	9%	30%	56%		
RHE20SIEHPR	83%	0.17	13%	65%	99.9%	0.20	5.79	85%	65%	26%	82%		
NS10 Grey	73%	0.27	6%	13%	>98%	0.31	5.70	93%	20%	68%	81%	★★★★	
NS18 Grey	62%	0.38	16%	12%	>98%	0.43	5.70	82%	11%	69%	76%	★★	
NS28 Grey	56%	0.44	27%	13%	>98%	0.50	5.80	69%	11%	60%	71%	★☆☆	
V14 Sky Blue	78%	0.22	12%	54%	>98%	0.25	5.84	86%	50%	40%	81%	★★★★	
V28 Sky Blue	65%	0.35	27%	34%	>98%	0.39	5.84	69%	33%	45%	74%	★★☆	
V38 Sky Blue	56%	0.44	37%	27%	>98%	0.50	5.79	58%	25%	44%	69%	★★	
Enerlogic® 35	76%	0.24	33%	48%	99%	0.28	3.408	63%	49%	32%	75%	★★★★	★☆☆
Enerlogic® 70	49%	0.51	70%	8%	99%	0.59	3.464	20%	21%	33%	59%	★★☆	★★☆☆
VE50S	58%	0.42	49%	25%	99%	0.49	4.54	44%	32%	33%	67%		
<b>SAFETY SERIES</b>													
SCL (4) Clear	14%	0.86	87%	9%	>98%	0.94	5.80	0%	7%	7%	46%		
SCLERPS 4 - EXTERNAL	14%	0.86	87%	9%	>98%	0.94	5.80	0%	7%	7%	46%		
SSI (4) Silver	79%	0.21	15%	60%	>98%	0.25	5.80	83%	55%	33%	80%		
MASF 4	47%	0.53	36%	10%	>98%	0.57	5.70	60%	9%	52%	67%		
N1035 (4) Neutral	53%	0.47	40%	18%	>98%	0.53	5.68	55%	14%	52%	67%		
N1050 (4) Neutral	44%	0.56	48%	13%	>98%	0.64	5.68	45%	12%	40%	63%		
SCL (7) Clear	14%	0.86	87%	10%	>98%	0.93	5.80	0%	9%	7%	46%		
NS18 (7)	62%	0.38	16%	12%	>98%	0.43	5.70	82%	11%	69%	76%		
SCL (8) Clear	14%	0.86	87%	10%	>98%	0.92	5.80	0%	9%	7%	46%		
N1050 (8) Neutral	44%	0.56	48%	13%	>98%	0.64	5.68	45%	12%	40%	63%		
SCL (11) Clear	14%	0.86	87%	10%	>98%	0.92	5.80	0%	9%	7%	46%		
<b>MATT SERIES</b>													
NRM PS (2) Translucent White	28%	0.72	69%	20%	>98%	0.82	5.80	22%	18%	15%	54%		
NRM MPS (3) Black Out	72%	0.28	0%	13%	>98%	0.32	5.80	100%	11%	89%	82%		
NRM WPS (3) White Out	78%	0.22	7%	58%	>98%	0.25	5.80	92%	49%	41%	82%		
<b>DECORATIVE SERIES</b>													
Metamark M4, M7 and Digital	THESE PRODUCTS ARE PREDOMINANTLY USED FOR INTERNAL AND EXTERNAL DECORATIVE APPLICATION No solar performance figures available												
<b>3M FILMS</b>													
Dusted Crystal Frosted Crystal Coloured Crystal Haze Sandblast	THESE PRODUCTS ARE PREDOMINANTLY USED FOR INTERNAL AND EXTERNAL DECORATIVE APPLICATION No solar performance figures available												

Data above relates to films as applied to 6mm clear glass. All values are intended for design use only. Materials used are subject to normal manufacturing tolerances.

Note 1: The data in this column is a guide enabling an estimate only of fade reduction. As there are many variable 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.

Note 3: This is a winter median U-value and represents a centre-of-glass data only.

For comprehensive WERS data on film/frame types: go to: [http://werssearch.freehostia.com/tables/wersfilm\\_table.php?Manufacturer=MEP](http://werssearch.freehostia.com/tables/wersfilm_table.php?Manufacturer=MEP)

C = Cooling, H = Heating

# Residential and Commercial, Safety and Security Film Physical Properties

Film Code	Film Thickness (Micron)	Appearance	Number of Layers	Tensile Strength As Constructed	Break Strength Peak Load	Elongation at Break	Peel Strength	Puncture Strength
SCL SR PS4	100	CLEAR	SINGLE	34,555	135	>100%	>2720 (>6)	70
SCLERSP4	100	CLEAR	SINGLE	34,555	135	>100%	>2720 (>6)	70
SSI(4) SILVER	100	SILVER	MULTIPLE	33,884	120	>100%	>2720 (>6)	78
N1035 SR PS4	100	NEUTRAL	MULTIPLE	33,884	120	>100%	>2720 (>6)	78
N1050 SR PS4	100	NEUTRAL	MULTIPLE	33,884	120	>100%	>2720 (>6)	78
SCL SR PS7	175	CLEAR	SINGLE	31,050	230	>100%	>2720 (>6)	145
SCL SR PS8	200	CLEAR	MULTIPLE	31,071	266	>100%	>2720 (>6)	156
N1050 SR PS8	200	NEUTRAL	MULTIPLE	32,473	269	>100%	>2720 (>6)	164
SCL SR PS11	275	CLEAR	MULTIPLE	26,971	324	>100%	>2720 (>6)	187
SCL SR PS15*	375	CLEAR	MULTIPLE	26,323	472	>100%	>2720 (>6)	223
NSI8SRPSM7 **	175	GREY	MULTIPLE	29,400	171	>100%	>2720 (>6)	129

\* This item requires pre ordering as it is not a carried stock item. \*\* Due to new construction, the physical property data is an 'in-house' estimate when testing is complete, new data will be provided.

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.

MEP Films' Safety and Security Films are manufactured to comply and conform to the following Australia, New Zealand and internationally recognised standards.

NOTE: Some international standards are not met by certain films. Check with MEP Films prior to selection.

### National and International Test Results

PERSONAL SAFETY GLAZING	BLAST HAZARD MITIGATION	WINDBORNE DEBRIS PROTECTION	BURGLARY RESISTANCE	PHYSICAL TESTING	FIRE TESTING
<ul style="list-style-type: none"> <li>Human Impact - AS/NZS 2208</li> <li>ANSI Z97.1</li> <li>CPSC 16 CFR 1201</li> <li>BS 6206</li> <li>JIS A5759</li> <li>GB 9962-88 EN 12600</li> </ul>	<ul style="list-style-type: none"> <li>GSA (Glazing Systems Subject to Airblast Loadings)</li> </ul>	<ul style="list-style-type: none"> <li>Dade Country</li> <li>PA 201-94/PA 202-94</li> <li>PA 203-94</li> </ul>	<ul style="list-style-type: none"> <li>DIN 52290 Part 4 / Type A1</li> <li>UL 972</li> <li>ULC- S332</li> </ul>	<ul style="list-style-type: none"> <li>Tensile Strength - ASTM D 882- psi*</li> <li>Break Strength - ASTM D 882 lbf/in**</li> <li>Elongation at Break ASTM D 882 percent</li> <li>Peel Strength - ASTM D 3330 g/in***</li> <li>Puncture Strength - ASTM D 4830 lbf****</li> </ul>	<ul style="list-style-type: none"> <li>Self-Ignition Temperature - ASTM D 1929</li> <li>Rate of Burn - ASTM D 635</li> <li>Surface Burning Characteristics - ASTM E 84</li> <li>Surface Flammability - ASTM E 162</li> <li>Smoke - ASTM E 662</li> </ul>

Tensile Strength	ASTM D882	* psi - pounds per square inch
Break Strength	ASTM D882	** lbf/in - pounds force per inch width
Elongation at break	ASTM D882	% - Percent
Peel Strength	ASTM D3330	*** g/in - grams per inch width
Puncture Strength	ASTM D4830	**** lbf - pounds force

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