

# Solar Control Series.

## Flat Glass Film Type, Warranty & Roll Size Chart

Product Code	Warranty		914mm (36" Roll)	1219mm (48" Roll)	1524mm (60" Roll)	1829mm (72" Roll)
	RES	COM				
R15	10	10	✓	✓	✓	②
R20	L	12	✓	✓	✓	②
N1020	L	12	✓	✓	✓	②
N1020 B	L	12	✓	✓	✓	①
N1035	L	12	✓	✓	✓	②
N1035 B	L	12	✓	✓	✓	①
N1050	L	12	✓	✓	✓	②
N1065	L	12	-	✓	✓	①
RHE20SIHPR	7V-FO/5H-FO		-	✓	✓	-
RHE35SIHPR	7V-FO/5H-FO		-	✓	✓	-
RHE50SIHPR	7V-FO/5H-FO		-	✓	✓	✓
NHE20SIHPR	7V-FO/5H-FO		-	✓	✓	✓
NHE35SIHPR	7V-FO/5H-FO		-	✓	✓	✓
NS10*	L	12	✓	✓	✓	②
NS18*	L	12	-	✓	✓	②
NS22*	L	12	-	✓	✓	②
NS28*	L	12	-	✓	✓	②
NS36*	L	12	-	✓	✓	②
V14*	L	12	✓	✓	✓	①
V28*	L	12	✓	✓	✓	②
V38	L	12	✓	✓	✓	②
Ceramic 35	L	12	-	-	✓	②
Ceramic 55	L	12	-	-	✓	②

- ① Non Stock item - ex USA  
3 months delivery or air freight at additional cost
- ② In Stock item - low numbers  
Confirm availability with warehouse prior to ordering.
- ✓ Available
- Not available
- Warranty Lifetime  
Warranty period in years i.e. 10 = 10 years. All warranties not transferable.
- Res Residential
- Com Commercial
- V Vertical
- H Horizontal
- FO Film Only - all associated costs not covered
- \* Also available in a 50' length roll

Warranty: If your residential or commercial window film is provided with a warranty, see that form for details, which may vary according to product type. Neither MEP Films nor the installation company will be responsible for damage that is the result of improper cleaning, physical impact, or abuse, nor for glass breakage subsequent to installation from any cause except as expressly provided for by MEP Films or the installing company.

Always confirm film type and roll size availability with warehouse as liability will not be accepted for out of stock or deleted film types and/or roll sizes. Unless specified all rolls are 30.48m/100ft in length.

## Safety & Anti-Graffiti Series.

## Flat Glass Film Type, Warranty & Roll Size Chart

Product Code	Warranty		914mm (36" Roll)	1219mm (48" Roll)	1524mm (60" Roll)	1829mm (72" Roll)
	RES	COM				
S CL (4)	L	12	✓	✓	✓	❷
S S1 (4)	L	12	-	-	✓	-
N 1035 (4)	L	10	-	-	✓	-
N 1050 (4)	L	10	-	-	✓	-
MASF 35	10	10	-	-	✓	-
SHE 4	3	3	-	-	✓	-
SCL/TAG*	1/2	1/2	✓	-	✓	✓

## Security Series.

Product Code	Warranty		914mm (36" Roll)	1219mm (48" Roll)	1524mm (60" Roll)	1829mm (72" Roll)
	RES	COM				
S CL (7)	L	12	-	✓	✓	❷
NS 18 (7)	L	12	-	-	✓	-
S CL (8)	L	12	✓	✓	✓	❶
N 1050 (8)	L	12	-	-	❶	-
S CL (13) see notes	L	12	-	-	✓	-

❶	Non Stock item - ex USA 3 months delivery or air freight at additional cost
❷	In Stock item - low numbers Confirm availability with warehouse prior to ordering.
✓	Available
	Not available
Warranty	Lifetime Warranty period in years i.e. 10 = 10 years. All warranties not transferable.
Res	Residential
Com	Commercial
V	Vertical
H	Horizontal
FO	Film Only - all associated costs not covered
*	Film Only - Vertical application - 2 Years Film Only - Horizontal and any angle off vertical application - 1 Year

Warranty: If your residential or commercial window film is provided with a warranty, see that form for details, which may vary according to product type. Neither MEP Films nor the installation company will be responsible for damage that is the result of improper cleaning, physical impact, or abuse, nor for glass breakage subsequent to installation from any cause except as expressly provided for by MEP Films or the installing company.

Always confirm film type and roll size availability with warehouse as liability will not be accepted for out of stock or deleted film types and/or roll sizes. Unless specified all rolls are 30.48m/100ft in length.

SCL (13) - 60"/1524mm X 75ft/22.8m length roll.

## Decorative Matt Series.

## Flat Glass Film Type, Warranty & Roll Size Chart

Product Code	Warranty		914mm (36" Roll)	1219mm (48" Roll)	1524mm (60" Roll)	1829mm (72" Roll)
	RES	COM				
NRM PS (2)	5 yrs - Internal 15 yrs - Partitioning		✓	✓	✓	②
NRM PS (3) BLACK OUT	5 yrs - Internal 15 yrs - Partitioning				✓	②
NRW PS (3) WHITE OUT	5 yrs - Internal 15 yrs - Partitioning				✓	②

## Metamark Vinyl Series.

Product Code	Warranty		610mm (24" Roll)	1219mm (48" Roll)	1600mm (63" Roll)
	RES	COM			
Metamark M4 and M7 (50m Roll)	3 yrs - External Film Only No Labour 5 yrs - Internal Film Only No Labour 7 yrs - Internal Partitioning Film Only No Labour		✓	✓	✓
Opal Haze	3 yrs - External Film Only No Labour 5 yrs - Internal Film Only No Labour 7 yrs - Internal Partitioning Film Only No Labour		✓	✓	✓

- ① Non Stock item - ex USA  
3 months delivery or air freight at additional cost
- ② In Stock item - low numbers  
Confirm availability with warehouse prior to ordering.
- ✓ Available
- Not available
- Warranty Lifetime  
Warranty period in years i.e. 10 = 10 years. All warranties not transferable.
- Res Residential
- Com Commercial
- V Vertical
- H Horizontal
- FO Film Only - all associated costs not covered

*Warranty: If your residential or commercial window film is provided with a warranty, see that form for details, which may vary according to product type. Neither MEP Films nor the installation company will be responsible for damage that is the result of improper cleaning, physical impact, or abuse, nor for glass breakage subsequent to installation from any cause except as expressly provided for by MEP Films or the installing company.*

## 3M Vinyl Series.

## Flat Glass Film Type, Warranty & Roll Size Chart

		Warranty					
Product Code		RES	COM	914mm (36" Roll)	1219mm (48" Roll)	1524mm (60" Roll)	1829mm (72" Roll)
Dusted Crystal	] 45.7m Length Rolls	3 yrs - 3M manufactures External Film Only No Labour		-	✓	✓	-
Frosted Crystal		7 yrs - 3M manufactures Internal Film Only No Labour		-	✓	✓	-
Coloured Crystal		15yrs 3M manufactures Internal Partitioning Film Only No Labour		-	✓	-	-
Haze 314	] 50m Length Rolls	3 yrs - 3M manufactures External Film Only No Labour		-	✓	✓	-
Sandblast 324		7 yrs -3M manufactures Internal Film Only No Labour		-	✓	✓	-
		7yrs 3M manufactures Internal Partitioning Film Only No Labour					

*Warranty: If your residential or commercial window film is provided with a warranty, see that form for details, which may vary according to product type. Neither MEP Films nor the installation company will be responsible for damage that is the result of improper cleaning, physical impact, or abuse, nor for glass breakage subsequent to installation from any cause except as expressly provided for by MEP Films or the installing company.*

# Solar Series.

## Residential & Commercial Film Performance

Film Code & 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*
6mm Clear Glass	14%	0.86	90%	8%	29%	1.00	5.85	0%	8%	9%	22%		
R15 Grey	77%	0.23	6%	13%	99%	0.26	5.23	93%	36%	57%	81%		
R20 Silver	80%	0.20	15%	62%	>99%	0.22	5.11	83%	57%	32%	80%	★★★☆	
N1020 Neutral	63%	0.37	23%	30%	>99	0.42	5.85	74%	27%	52%	74%	★★☆	
N1020 Bronze	77%	0.23	21%	37%	>99%	0.27	5.11	77%	49%	38%	79%	★★	
N1035 Neutral	51%	0.49	37%	19%	99%	0.56	5.96	59%	17%	49%	67%		
N1035 Bronze	64%	0.36	37%	26%	99%	0.41	5.23	59%	37%	37%	70%	★★☆	
N1050 Neutral	41%	0.59	50%	14%	99%	0.68	6.08	44%	12%	42%	63%	★☆☆	
N1065 Neutral	28%	0.72	69%	10%	99%	0.83	6.08	23%	9%	27%	56%		
RHE20 Silver	80%	0.20	16%	62%	>99%	0.22	5.91	82%	63%	25%	82%		
RHE35 Silver	70%	0.35	29%	48%	>99%	0.35	5.91	68%	50%	29%			
RHE50 Silver	52%	0.48	49%	26%	>99%	0.55	5.91	46%	30%	32%			
NHE20 Neutral	64%	0.36	23%	30%	>99%	0.42	5.91	74%	29%	50%			
NHE35 Neutral	51%	0.49	38%	19%	>99%	0.56	5.91	58%	18%	48%			
NS10 Grey	69%	0.31	7%	11%	>99%	0.35	5.40	92%	26%	60%	81%	★★★★	
NS18 Grey	62%	0.38	16%	12%	>98%	0.43	5.70	82%	11%	69%	76%	★★	
NS22	63%	0.36	22%	n/a	99%	0.39	5.23	76%	31%	46%			
NS28 Grey	56%	0.44	27%	13%	>98%	0.50	5.80	69%	11%	60%	71%	★☆☆	
NS36	54%	0.46	36%	n/a	99%	0.52	5.40	61%	22%	45%			
V14 Sky Blue	80%	0.20	10%	55%	>99%	0.23	5.79	89%	51%	42%	81%	★★★★	
V28 Sky Blue	64%	0.36	30%	33%	>99%	0.41	5.74	67%	33%	44%	74%	★★☆☆	
V38 Sky Blue	57%	0.43	39%	26%	>99%	0.49	5.74	57%	26%	44%	69%	★★	
Ceramic 35	55%	0.45	36%	10%	>99%	0.53	5.96	60%	12%	62%			
Ceramic 55	41%	0.59	57%	9%	>99%	0.69	5.96	37%	11%	43%			

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 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. 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: <https://www.awawers.net/filmres/reslist/MEP>



## Safety & Security Series.

## Residential & Commercial Film Performance

Film Code & 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*
SCL 4 - CLEAR	15%	0.85	90%	9%	99%	0.98	6.08	0%	8%	10%	46%	NOT TESTED	NOT TESTED
SSI (4) Silver	79%	0.21	15%	60%	>99%	0.24	5.79	83%	55%	34%	80%		
MASF35(4)	47%	0.53	36%	10%	>98%	0.57	5.70	60%	9%	52%	67%		
N1035 (4) Neutral	47%	0.53	39%	14%	>99%	0.61	6.02	57%	14%	48%	67%		
N1050 (4) Neutral	39%	0.61	49%	11%	>99%	0.70	6.08	46%	10%	42%	63%		
SCL (7) Clear	15%	0.85	89%	9%	99%	0.97	6.08	1%	8%	10%	46%		
NS18 (7)**	62%	0.38	16%	12%	>98%	0.43	5.70	82%	11%	69%	76%		
SCL (8) Clear	16%	0.84	89%	10%	99%	0.97	6.08	1%	9%	10%	46%		
N1050 (8) Neutral	39%	0.61	49%	11%	>99%	0.70	6.08	46%	10%	42%	63%		
SCL (13) Clear	17%	0.83	88%	10%	99%	0.96	6.02	2%	9%	11%	46%		
SHE (4) Clear	15%	0.85	90%	9%	99%	0.98	6.08	0%	8%	10%	46%		
SCL/TAG	16%	0.84	89%	10%	95%	0.97	6.08	0%	9%	10%	46%		

Due to new construction, the physical property data is an 'in-house' estimate. When testing is complete, new data will be provided.

\* External

\*\* Due to new construction, the performance data is an 'in-house' estimate. When testing complete, new data will be provided.

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: <https://www.awawers.net/filmres/reslist/MEP>

## Matt Series.

## Residential & Commercial Film Performance

Film Code & 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*
NRM PS (2) Trans White	27%	0.73	73%	25%	98%	0.84	5.79	17%	15%	9%	54%	NOT TESTED	NOT TESTED
NRM MPS (3) BLACK OUT	71%	0.29	0%	13%	>99%	0.34	5.85	100%	11%	89%	82%		
NRM WPS (3) White Out	77%	0.22	7%	58%	99%	0.25	5.85	84%	66%	16%	82%		

## Decorative Series.

Film Code & Colour	Total Energy Rejection (Heat)	Visible Light Transmitted	Visible Light Reflected (External)	Glare Reduction	Solar Energy Reflected	Solar Energy Absorbed	W.E.R.S Star Rating	
							C*	H*
Metamark M4 Frost	18%	86%	12%	4%	11%	9%	NOT TESTED	NOT TESTED
Metamark M7 Dust Etch	18%	87%	12%	3%	10%	10%		
Metamark M7 Crystal Etch	43%	56%	30%	38%	28%	20%		
Metamark M7 Silver Etch	32%	69%	24%	23%	22%	13%		
Metamark M7 Opal Haze	20%	83%	13%	8%	12%	10%		

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. Note 3: This is not a weighted number. The U Value number provided applies only to the film/ glass combination. C = Cooling, H = Heating.

## Physical Properties.

## Residential & Commercial Film Performance

Film Code	Film Thickness (Micron)	Appearance	Number of Layers	Tensile Strength as Constructed	Break Strength Peak Load	Elongation at Break	Peel Strength	Puncture Strength
SCLSRPS4	100	Clear	Single	34,555	135	>100%	>2720 (>6)	70
SSI (4) SILVER	100	Silver	Multiple	34,884	120	>100%	>2720 (>6)	78
N1035SRPS4	100	Neutral	Multiple	34,884	120	>100%	>2720 (>6)	78
N1050SRPS4	100	Neutral	Multiple	34,884	120	>100%	>2720 (>6)	78
MASF35(4)**	100	Neutral	Multiple	34,884	120	>100%	>2720 (>6)	78
SCLSRPS7	175	Clear	Single	31,050	230	>100%	>2720 (>6)	145
SCLSRPS8	200	Neutral	Multiple	31,071	266	>100%	>2720 (>6)	156
N1050SRPS8	200	Clear	Multiple	31,071	266	>100%	>2720 (>6)	164
SCLSRPS15	375	Clear	Multiple	26,323	472	>100%	>2720 (>6)	223
NS18SRPS7**	175	Grey	Multiple	29,400	171	>100%	>2720 (>6)	129
SCLSRPS13 - DATA AVAILABLE UPON REQUEST								

For data and National & International test results, see next page

\* External

\*\* Due to new construction, the physical property data is an 'in-house' estimate. When testing is complete, new data will be provided.



## Physical Properties.

## Residential & Commercial, Safety & Security Film

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 national and internationally recognised standards.

## National & 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>

\* psi - pounds per square inch

\*\* lbf/in - pounds force per inch width

\*\*\* g/in - grams per inch width

\*\*\*\* 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 Care & Maintenance.

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- Upon application of film when viewing through the film/glass combination either from the inside or the outside, it may be noticed that a dimpled or textured appearance or milky or cloudy spots are apparent. This is common and is a normal part of the drying process, especially with sputtered metal films.
- The cloudiness will slowly diminish with time and within two to eight weeks should vanish entirely depending on the type of film product used, outside temperature, weather conditions and humidity.

## Cleaning.

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- To prevent voiding the warranty it is recommended that MEP Films by LLumar 'Window Tint Cleaner & Protector' (catalogue number A 105S) be used for the cleaning of film surfaces with the exception of external film.

## Warning.

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- The special cleaning instructions below are required for External fitted film.
- External Film utilises a protective weatherable layer that is designed to withstand exterior weathering and sheds dirt. In most cases the windows should only require an occasional hose with water and a mild household detergent. Spray the window pane to be cleaned thoroughly with a water/ detergent mix. Then spray/rinse with clear water. Let the window pane air dry. DO NOT SQUEEGEE OR WIPE DRY.

**Do not wash external films with brushes and/or squeegees.**