



SAFETY & SECURITY WINDOW FILMS

PRODUCT	% VISIBLE LIGHT TRANSMISSION (VLT)	%TOTAL SOLAR TRANSMITTANCE	% TOTAL SOLAR REFLECTANCE	% TOTAL SOLAR ABSORBANCE	% VISIBLE LIGHT REFLECTANCE INT	% VISIBLE LIGHT REFLECTANCE EXT	WINTER U-VALUE	% UV REJECTED	% GLARE REDUCTION	SHADING COEFFICIENT	% TOTAL SOLAR ENERGY REJECTED (TSER)
<b>Clear Series</b>											
2M	88	75	8	17		10	1.05	96		0.93	19
4M	86	74	8	18		10	1.05	96		0.92	20
7M	85	71	10	19		10	1.05	96		0.91	20
8M	83	77	8	15		10	1.05	99		0.92	19
11M	82	70	10	20		10	1.05	99		0.91	22
16M	82	70	9	21		10	1.05	99		0.90	25
21M	79	65	12	23		12	1.01	99		0.88	27
<b>Ultra-VisionDS™ Series (Spectrally Selective, Neutral)</b>											
8.5M ULV 40	38	29	22	49	14	17	1.04	99	57	0.46	60
<b>Symphony™ Series (Dual-Reflective, Neutral)</b>											
4M SY 65	65	54	10	36	11	14	1.04	99	27	0.74	35
4M SY 35	35	27	27	46	18	25	1.07	99	58	0.46	60
6M SY 35	35	27	27	46	18	25	1.07	99	58	0.46	60
6M SY 25	27	19	36	45	20	35	1.03	99	70	0.38	67
8.5M SY 50	47	36	19	45	12	16	1.09	99	48	0.60	48
8.5M SY 35	35	27	27	46	18	25	1.07	99	58	0.46	60
8.5M SY 25	27	19	36	45	20	35	1.03	99	70	0.38	67
<b>Silver Series (Reflective, Silver)</b>											
4M Silver 35	28	22	43	35	40	44	0.95	99	69	0.37	68
4M Silver 20	15	12	55	33	58	60	0.94	99	84	0.24	79
8M Silver 20	15	12	55	33	58	60	0.94	99	84	0.24	79



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<b>Charcoal Series</b>											
6M Charcoal 50	50	60	7	33	7	7	1.09	99	43	0.79	30
6M Charcoal 35	38	52	7	41	6	6	1.09	99	57	0.71	37
6M Charcoal 20	20	46	7	47	6	6	1.09	99	77	0.67	40
4M Charcoal 50	50	60	7	33	7	7	1.09	99	43	0.79	30
4M Charcoal 35	38	52	7	41	6	6	1.09	99	57	0.71	37
4M Charcoal 20	20	46	7	47	6	6	1.09	99	77	0.67	40
<b>Anti-Graffiti Series</b>											
6M Anti-Graffiti	86	76	10	14	10	10	1.09	95	3	0.93	19
4M Anti-Graffiti	86	78	9	13	9	9	1.09	95	3	0.93	19

PRODUCT	FILM THICKNESS	SINGLE OR MULTI-PLY	TENSILE STRENGTH	BREAK STRENGTH	ELONGATION AT BREAK	PEEL STRENGTH	PUNCTURE STRENGTH
<b>Clear Series</b>							
2M	0.002"	Single	34,100 psi	68 lbs/inch	>100%	2750 g/inch	54 lbs
4M	0.004"	Single	34,900 psi	136 lbs/inch	>100%	2750 g/inch	93 lbs
7M	0.007"	Single	32,260 psi	216 lbs/inch	>100%	2750 g/inch	149 lbs
8M	0.008"	Multi	32,500 psi	269 lbs/inch	>100%	2750 g/inch	173 lbs
11M	0.011"	Multi	32,700 psi	370 lbs/inch	>100%	2750 g/inch	243 lbs
16M	0.016"	Multi	32,500 psi	468 lbs/inch	>100%	2750 g/inch	274 lbs
21M	0.021"	Multi	28,200 psi	600 lbs/inch	>100%	2750 g/inch	358 lbs
<b>Ultra-VisionDS™ Series (Spectrally Selective, Neutral)</b>							
8.5M ULV 40	0.0085"	Multi	30,400 psi	265 lbs/inch	>100%	2750 g/inch	173 lbs
<b>Symphony™ Series (Dual-Reflective, Neutral)</b>							
4M SY 65	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
4M SY 35	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
6M SY 35	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	2750 g/inch	132 lbs
6M SY 25	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	2750 g/inch	132 lbs
8.5M SY 50	0.0085"	Multi	30,400 psi	265 lbs/inch	>100%	2750 g/inch	173 lbs
8.5M SY 35	0.0085"	Multi	30,400 psi	265 lbs/inch	>100%	2750 g/inch	173 lbs
8.5M SY 25	0.0085"	Multi	30,400 psi	265 lbs/inch	>100%	2750 g/inch	173 lbs
<b>Silver Series (Reflective, Silver)</b>							
4M Silver 35	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
4M Silver 20	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
8M Silver 20	0.008"	Multi	30,400 psi	265 lbs/inch	>100%	2750 g/inch	173 lbs



PHYSICAL PROPERTIES

PRODUCT	FILM THICKNESS	SINGLE OR MULTI-PLY	TENSILE STRENGTH	BREAK STRENGTH	ELONGATION AT BREAK	PEEL STRENGTH	PUNCTURE STRENGTH
<b>Charcoal Series</b>							
6M Charcoal 50	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	2750 g/inch	132 lbs
6M Charcoal 35	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	2750 g/inch	132 lbs
6M Charcoal 20	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	2750 g/inch	132 lbs
4M Charcoal 50	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
4M Charcoal 35	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
4M Charcoal 20	0.004"	Multi	33,600 psi	134 lbs/inch	>100%	2750 g/inch	103 lbs
<b>Anti-Graffiti Series</b>							
6M Anti-Graffiti	0.006"	Multi	32,200 psi	190 lbs/inch	>100%	1000 g/inch	132 lbs
4M Anti-Graffiti	0.004"	Single	34,900 psi	136 lbs/inch	>100%	1000 g/inch	93 lbs