

# Safety/Security Film

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THE RETROFIT SOLUTION TO  
HIGH PERFORMANCE GLAZING



## SOLAR PROPERTIES

## PHYSICAL PROPERTIES

### Safety & Security Films

Typical solar properties with film mounted to 3mm clear glass.

	% Solar Transmittance	% Solar Reflectance	% Solar Absorptance	% Visible Light Transmittance	% Visible Light Reflected	Winter Median "U" Value	Shading Coefficient	% Ultraviolet Rejected	Emissivity	% Total Solar Energy Rejected	Luminous Efficacy	% Solar Heat Reduction	% Glare Reduction	Tensile Strength (lb/in <sup>2</sup> ) Finished Film	Tensile Strength (lb/in <sup>2</sup> ) Raw Polyester	Break Strength (lb/in)	% Elongation at Break	Peel Strength (g/inch)	Puncture Strength (lb)
<b>Safety/Security Clear Films</b>																			
SCLSRPS2 (clear)	83	9	8	89	10	1.03	.97	95	.84	16	.92	1	0	28,000	32,000	56	>100	>2720	45
SCLSRPS4 (clear)	81	9	10	89	10	1.03	.97	95	.84	16	.92	1	1	33,100	32,000	132	>100	>2720	79
SCLSRPS7 (clear)	81	9	10	88	10	1.03	.96	95	.84	16	.92	2	2	27,614	32,000	193	>100	>2720	145
SCLSRPS8 (clear)	78	9	13	88	11	1.03	.94	99	.82	18	.94	5	2	29,505	32,000	235	>100	>2720	156
SCLSRPS11 (clear)	78	9	13	85	11	1.03	.93	99	.84	19	.91	6	6	27,318	32,000	301	>100	>2720	187
SCLSRPS15 (clear)	76	10	14	83	11	1.03	.92	99	.84	20	.90	7	8	23,345	32,000	373	>100	>2720	223
<b>Solar/Security Exterior Films</b>																			
SCLERPS4 (clear)	86	7	7	89	9	1.03	.99	95	.84	14	.90	1	1	25,714	32,000	101	>100	>2720	77
<b>Solar/Security Tinted Films</b>																			
SA15CHSRPS4 (charcoal)	44	7	49	17	5	1.03	.66	99	.84	43	.26	34	81	25,714	32,000	101	>100	>2720	78
SA35CHSRPS4 (charcoal)	56	7	37	38	6	1.03	.76	99	.84	34	.50	24	58	25,714	32,000	101	>100	>2720	78
SA50CHSRPS4 (charcoal)	62	7	31	52	6	1.03	.81	99	.84	29	.64	19	42	25,714	32,000	101	>100	>2720	78
SA15CHSRPS8 (charcoal)	44	7	49	17	5	1.03	.66	99	.84	43	.26	34	81	29,505	32,000	235	>100	>2720	156
SA35CHSRPS8 (charcoal)	56	7	37	38	6	1.03	.76	99	.84	34	.50	24	58	29,505	32,000	235	>100	>2720	156
SA50CHSRPS8 (charcoal)	62	7	31	52	6	1.03	.81	99	.84	29	.64	19	42	29,505	32,000	235	>100	>2720	156
<b>Solar/Security Tinted Reflective Films</b>																			
ATR35CHSRPS4 (charcoal)	35	15	51	38	8	1.03	.56	99	.84	44	.64	44	60	25,714	32,000	101	>100	>2720	77
ATR50CHSRPS4 (charcoal)	52	10	38	55	8	1.03	.72	99	.84	34	.76	28	39	25,714	32,000	101	>100	>2720	77
<b>Solar/Security Reflective/Sputtered Films</b>																			
SSISRPS4 (silver)	14	54	32	18	62	.94	.24	99	.71	79	.75	76	80	25,714	32,000	101	>100	>2720	79
SSISRPS8 (silver)	14	54	32	18	62	.94	.24	99	.71	79	.75	76	80	29,505	32,000	235	>100	>2720	156
N1020SRPS4 (neutral)	22	26	52	24	31	1.03	.43	99	.84	63	.56	57	73	25,714	32,000	101	>100	>2720	78
N1040SRPS4 (neutral)	36	15	49	41	18	1.00	.58	99	.84	50	.75	45	54	25,714	32,000	101	>100	>2720	78
N1050SRPS4 (neutral)	44	13	43	50	15	1.03	.64	99	.84	45	.78	36	44	25,714	32,000	101	>100	>2720	78
N1040SRPS8 (neutral)	36	15	49	41	18	1.00	.58	99	.84	50	.75	45	54	29,505	32,000	235	>100	>2720	156
<b>Graffiti Films</b>																			
GCLSRPS4 (clear)	81	9	10	89	10	1.02	.97	95	.84	16	.92	1	1	25,714	32,000	101	>100	>900	78

Typical solar properties with film mounted to 3mm clear glass. All data has been measured in accordance with ASTM, ASHRAE, and AIMCAL standards using NFRC methodology with LBNL's Window 5.0 software. All values averaged from routinely accumulated quality control data. Please consult the LLumar Technical Website for the most recent product testing and performance data. See product name for film thickness in mils. \*LLumar safety/security films conform to and have been tested to many internationally recognized standards. Please see the LLumar sample book for a complete listing.