

LLUMAR SAFETY AND SECURITY WINDOW FILM PERFORMANCE DATA



	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorbance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter Median U-value	Shading Coefficient	% Ultraviolet Rejected	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
Window without film applied (1/8" clear single pane)	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	0	0	0
SAFETY AND SECURITY																
Safety and Security products are durable films available in a variety of clear, neutral, and reflective offerings with a range of solar control options. Clear films can be applied over tinted glass to improve aesthetics, solar performance and glare. These thicker films meet the most stringent standards for burglary resistance, blast mitigation, windborne debris, and basic safety glazing.																
SCL SR PS4	81	9	10	89	10	10	1.03	0.97	95	0.84	0.84	16	1.06	3	0	1
SCL SR PS6	79	9	12	88	10	10	1.03	0.94	99	0.84	0.82	18	1.07	6	0	2
SCL SR PS7	81	9	10	88	10	10	1.03	0.96	95	0.84	0.84	16	1.05	4	0	2
SCL SR PS8	78	9	13	88	11	11	1.03	0.94	99	0.84	0.82	18	1.07	6	0	2
SCL SR PS11	78	9	13	85	11	11	1.03	0.93	99	0.84	0.81	19	1.05	7	0	6
R-20 SR PS4 and 8	12	54	34	16	62	62	0.94	0.25	99	0.71	0.21	79	0.76	75	9	82
N-1020 SR PS4 and 8	21	26	53	24	29	28	1.03	0.44	99	0.84	0.37	63	0.65	56	0	73
N-1040 SR PS4 and 8	36	16	48	40	18	15	1.00	0.59	99	0.84	0.50	50	0.80	41	3	56
N-1050 SR PS4 and 8	44	13	43	49	14	12	1.03	0.67	99	0.84	0.58	42	0.84	33	0	46
NUV65 SR PS4	63	9	28	70	11	10	1.02	0.71	99.9	0.84	0.71	29	0.99	18	1	22
GRAFFITI																
Graffiti Series films are optically clear, enhanced with ultraviolet inhibiting agents that reject up to 99% of UV rays, and are made to resist common graffiti, chemicals, paints, and tools, and are made with special adhesives for ease of removal and replacement.																
GCL SR PS4	81	9	10	89	10	10	1.02	0.97	95	0.84	0.84	16	1.06	3	1	1
GCL SR PS6	79	8	13	89	10	10	1.02	0.95	99	0.84	0.83	17	1.07	5	1	1

The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement as measured on single pane, 1/8 inch (3mm), clear glass. All values averaged from routinely accumulated quality control data.

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