


## Performance Notes

1. Solar Gard® is a participating member of AIMCAL (the Association of Industrial Metallizers, Coaters and Laminators), IWFA, and EWFA. Performance results are calculated using NFRC methodology and LBNL Window 5.2 software, and are subject to variations within industry standards and only intended for estimating purposes.
2. These test data contain only results arrived at after employing specific test procedures and standards. The included data do not constitute a recommendation for, endorsement of, or certification of the product or material tested. These data are provided for informational purposes only and are not to be considered part of the basis representation or warranty, expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose, that its products will conform to these test data. Solar Gard's limited warranty should be carefully reviewed prior to purchasing any Solar Gard product. Extrapolation of data from the sample or samples relation to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Solar Gard shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which Solar Gard has no control.
3. Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.
4. The mechanical properties of the safety films have been determined according to:
  - ASTM D882 (tensile strength, elongation, yield stress and break strength)
  - ASTM D4380 (puncture strength)
  - ASTM D903-98 (peel strength)

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# Solar Gard® Solar Control Window Films Sentinel™ Plus SX 50 OSW



## Performance Results

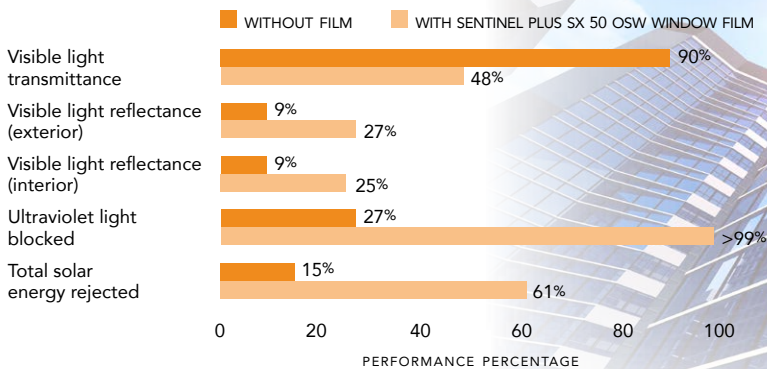
	4 mm Single Clear	4 mm Double Clear	4 mm Triple Clear
<b>Visible Light</b>			
TR (%) Transmittance	48	44	41
Re/Ri (%) Reflectance Exterior/Interior	27/25	29/29	31/32
GL (%) Glare Reduction	47	46	45
<b>Solar Energy</b>			
TR (%) Transmittance	37	32	29
A (%) Absorptance	32	36	38
R (%) Reflectance	31	32	33
IR (%) IR Rejection 780 to 2500nm	78	-	-
UV (%) UV blocked @300 to 380 nm	>99	>99	>99
SC Shading Coefficient	0,52	0,42	0,00
G Solar Heat Gain Coefficient (G-value)	0,44	0,38	0,34
SSI Solar Selectivity Index (VLT/SHGC)	1,08	1,17	1,21
TSER (%) Total Solar Energy Rejected	56	62	66
TSER (%) -60° Total Solar Energy Rejected at 60° angle	-	-	-
SHGR (%) Solar Heat Gain Reduction	49	51	52
<b>Emissivity</b>			
E Emissivity	0,78	0,78	0,78
<b>Winter U-Factor (W/m²K)</b>			
U (W/m²K) Winter U-Factor (W/m²K)	5,7	2,8	1,8
<b>Winter Heat Loss Reduction</b>			
U Red (%) Winter Heat Loss Reduction	0	0	0
<b>Fade Control UV Tdw-ISO @300 to 700 nm</b>			
Tdw (%) Fade Control UV Tdw-ISO @300 to 700 nm	36	33	30
<b>Fade Reduction Factor</b>			
FR (%) Fade Reduction Factor	58	55	55

## Physical Properties

Tnom / T(µm)	Thickness Nominal / Overall	50
TS - kg/cm²	Tensile strength	2110 kg
EPD	Environmental Product Declaration	YES

All performance results are based on the film installed on the inside surface of 1/8" (3mm), 1/4" (6mm), and 1/8"+1/8" (3mm+3mm) thick, clear glass.

## Film performance



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