

A better environment inside and out.®

Solar Gard® Solar Control Window Films

Sentinel™ Plus SX 80 OSW



Performance Results

	4 mm Single Clear	4 mm Double Clear	4 mm Triple Clear
Visible Light			
Transmittance %	78	71	65
Reflectance Exterior/Interior %	8/8	13/15	17/20
Glare Reduction %	13	13	13
Solar Energy			
Transmittance %	44	39	35
Absorptance %	49	52	54
Reflectance %	7	9	11
IR Rejection 780 to 2500 nm %*	84	-	-
UV blocked @300 to 380 nm %	>99	>99	>99
Solar Heat Gain Coefficient (G-value)	0,56	0,46	0,41
Solar Selectivity Index (VLT/SHGC)	1,40	1,53	1,58
Total Solar Energy Rejected %	44	54	59
Total Solar Energy Rejected at 60° angle %	51	62	69
Solar Heat Gain Reduction %	36	40	42
Emissivity			
Winter U-Factor (W/m²°C)	5,7	2,8	1,8
Winter Heat Loss Reduction	0	0	0
Fade Control UV Tdw-ISO @300 to 700 nm	54	49	45
Fade Control UV Tdw-K @300 to 500 nm	26	23	21



Physical Properties

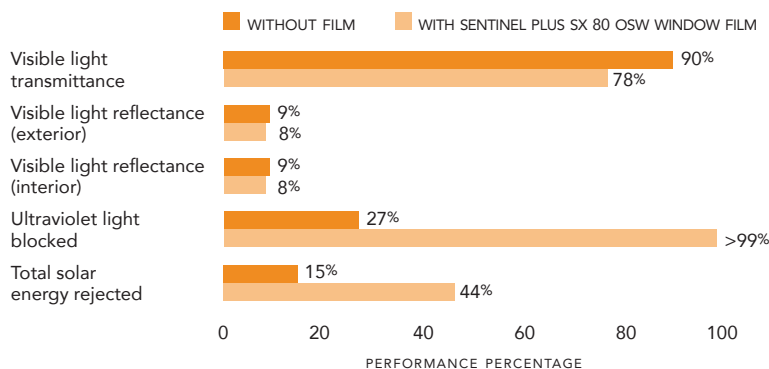
Tnom / T(µm)	Thickness Nominal / Overall	50
TS - kg/cm²	Tensile strength	2110 kg



All performance results are based on the film installed on the inside surface of 4 mm, 4 mm double and 4 mm triple clear glass.
*Infrared rejection = 1 - average unweighted transmittance using ASTM E 903

Film performance

Performance results were generated from testing 4 mm thick clear glass.



Performance Notes

- Solar Gard® is a participating member of AIMCAL (the Association of Industrial Metallizers, Coaters and Laminators), IWFA, and EWFA. EMEA architectural solar performance results are published using EN410 environmental conditions and Lawrence Berkeley National Laboratory (LBNL) Window 7 software.
- 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.
- Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.
- 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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