A better environment inside and out.®

Solar Gard® Solar Control Window Films

Sentinel™ Plus Stainless Steel 45 OSW

Performance results

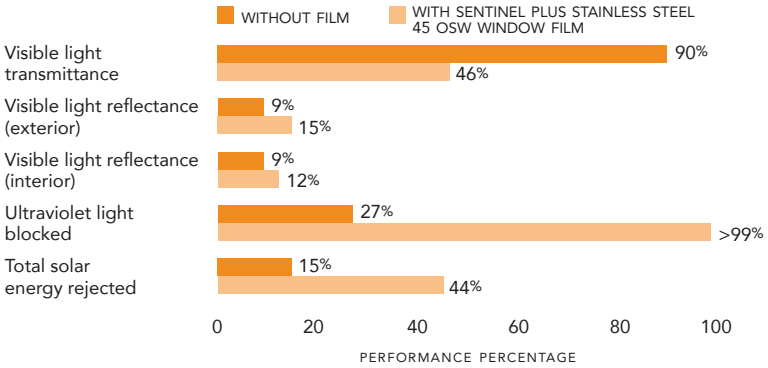
	1/8" (3mm)	1/4" (6mm)	1/8"+1/8" (3mm+3mm)
Solar energy			
% Transmittance	43	40	36
% Absorptance	43	46	49
% Reflectance	14	14	15
Visible light			
% Transmittance	46	46	42
% Reflectance exterior	15	15	17
% Reflectance interior	12	12	18
Emissivity	.88	.88	.88
Winter U-Factor (BTU hr/ft² °F)	1.04	1.02	.48
Shading coefficient	.65	.62	.53
Solar heat gain coefficient	.56	.54	.46
Solar selectivity index – luminous efficacy (VLT/SC)	.72	.73	.80
Light to solar heat gain factor (VLT/SHGC)	.83	.85	.93
% Ultraviolet light blocked @ 300 to 380 nm	>99	>99	>99
% Total solar energy rejected	44	46	54
% Summer solar heat gain reduction	35	34	40
% Glare reduction	48	48	48

Physical properties nominal

Gauge	2.0 mil (50 micron)
Tensile strength	30,000 lbs/in² (2,110 kg/cm²)

Film performance

Performance results were generated from testing 1/8" (3mm) thick clear glass.



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.

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 basic 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.

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