

Vanceva® SolarPro

Optical, Solar, Thermal and Color Properties Datasheet

The configuration as described below was calculated in OPTICSv6 and WINDOW 6.3 using standard NFRC/ASHRAE conditions.

Configuration: Laminated Glass with Vanceva® #0009 interlayer				
3 mm (1/8 inch) clear				
- Vanceva® #0009 ; 0.38 mm (0.015 inch) -				
3 mm (1/8 inch) clear				
Arctic Snow				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	60	U factor W/m2-K(Btu/hr-ft2-F)	5.75	1.01
Reflectance Solar (front) %	12	Shading Coefficient	0.78	0.78
Reflectance Solar (back) %	12	Solar Heat Gain Coefficient (SHGC; g)	0.68	0.68
Visible Light Transmittance %	68	Relative Heat Gain W/m2 (Btu/hr-ft2)	536	170
Visible Reflectance (front) %	16	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	16	GST Inboard 21°C (69.8°F)	-9	17
Absorptance (Solar) %	28	GST Outboard 32°C (89.6°F)	40	104
Tdw-K	0.22	GST Inboard 24°C (75.2°F)	47	116
Tdw-ISO	0.46	Light to Solar Gain (LSG)	1.00	
Tuv %	<1	Effective Aperture	30%=0.049	80%=0.097

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.57	3.20	85.98	-1.11	3.13
Reflectance	0.48	6.74	47.36	-2.19	-3.45
R (Transmittance)	255				
G (Transmittance)	255				
B (Transmittance)	255				
Color Rendering Index (Transmittance)	99				

Data reported in metric (SI) units with Inch Pound (IP) standard units calculated. GST: Glass surface temperatures - provided for inboard and outboard glass for conditions noted including standard wind conditions.

For specification purposes color consists of 1 Vanceva® color layers and is referenced as Vanceva® Interlayer Color #0009.

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