

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® #000A interlayer				
3 mm (1/8 inch) clear - Vanceva® #000A ; 0.38 mm (0.015 inch) - 3 mm (1/8 inch) clear				
Cool White				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	67	U factor W/m2-K(Btu/hr-ft2-F)	5.72	1.01
Reflectance Solar (front) %	11	Shading Coefficient	0.85	0.85
Reflectance Solar (back) %	11	Solar Heat Gain Coefficient (SHGC; g)	0.74	0.74
Visible Light Transmittance %	81	Relative Heat Gain W/m2 (Btu/hr-ft2)	573	182
Visible Reflectance (front) %	14	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	14	GST Inboard 21°C (69.8°F)	-9	17
Absorptance (Solar) %	22	GST Outboard 32°C (89.6°F)	45	112
Tdw-K	0.27	GST Inboard 24°C (75.2°F)	45	112
Tdw-ISO	0.56	Light to Solar Gain (LSG)	1.11	
Tuv %	<1	Effective Aperture	30%=0.042	80%=0.083

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.55	1.50	92.28	-1.91	1.84
Reflectance	0.48	6.03	44.17	-1.87	-2.93
R (Transmittance)	255				
G (Transmittance)	255				
B (Transmittance)	255				
Color Rendering Index (Transmittance)	98				

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 #000A.

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