

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® #000D interlayer				
3 mm (1/8 inch) clear				
- Vanceva® #000D ; 0.38 mm (0.015 inch) -				
3 mm (1/8 inch) clear				
True Blue				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	42	U factor W/m2-K(Btu/hr-ft2-F)	5.75	1.01
Reflectance Solar (front) %	7	Shading Coefficient	0.66	0.66
Reflectance Solar (back) %	7	Solar Heat Gain Coefficient (SHGC; g)	0.57	0.57
Visible Light Transmittance %	12	Relative Heat Gain W/m2 (Btu/hr-ft2)	457	145
Visible Reflectance (front) %	5	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	5	GST Inboard 21°C (69.8°F)	-9	17
Absorptance (Solar) %	51	GST Outboard 32°C (89.6°F)	44	112
Tdw-K	0.16	GST Inboard 24°C (75.2°F)	40	104
Tdw-ISO	0.23	Light to Solar Gain (LSG)	0.20	
Tuv %	<1	Effective Aperture	30%=0.016	80%=0.032

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.47	68.40	42.68	9.18	-52.50
Reflectance	0.45	14.41	27.99	3.67	-8.41
R (Transmittance)	2				
G (Transmittance)	101				
B (Transmittance)	187				
Color Rendering Index (Transmittance)	20				

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 #000D.

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