

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® #000E interlayer				
3 mm (1/8 inch) clear				
- Vanceva® #000E ; 0.38 mm (0.015 inch) -				
3 mm (1/8 inch) clear				
Tangerine				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	54	U factor W/m2-K(Btu/hr-ft2-F)	5.75	1.01
Reflectance Solar (front) %	8	Shading Coefficient	0.75	0.75
Reflectance Solar (back) %	8	Solar Heat Gain Coefficient (SHGC; g)	0.65	0.65
Visible Light Transmittance %	41	Relative Heat Gain W/m2 (Btu/hr-ft2)	513	163
Visible Reflectance (front) %	8	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	8	GST Inboard 21°C (69.8°F)	-9	17
Absorptance (Solar) %	39	GST Outboard 32°C (89.6°F)	41	106
Tdw-K	0.01	GST Inboard 24°C (75.2°F)	49	119
Tdw-ISO	0.11	Light to Solar Gain (LSG)	0.64	
Tuv %	<1	Effective Aperture	30%=0.024	80%=0.047

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.58	89.40	68.75	35.81	82.60
Reflectance	0.59	14.87	33.62	6.96	5.30
R (Transmittance)	252				
G (Transmittance)	139				
B (Transmittance)	0				
Color Rendering Index (Transmittance)	31				

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 #000E.

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The data presented is derived from samples tested or simulated. Results are not guaranteed for all samples or for conditions other than those tested. Data and its respective measured, calculated or estimated single number ratings is for glass panels only – glazing installed in frames may differ significantly in performance.

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