

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® #0004 interlayer				
3 mm (1/8 inch) clear				
- Vanceva® #0004 ; 0.38 mm (0.015 inch) -				
3 mm (1/8 inch) clear				
Sahara Sun				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	63	U factor W/m2-K(Btu/hr-ft2-F)	5.73	1.01
Reflectance Solar (front) %	6	Shading Coefficient	0.83	0.83
Reflectance Solar (back) %	6	Solar Heat Gain Coefficient (SHGC; g)	0.72	0.72
Visible Light Transmittance %	78	Relative Heat Gain W/m2 (Btu/hr-ft2)	564	179
Visible Reflectance (front) %	7	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	7	GST Inboard 21°C (69.8°F)	-9	17
Absorptance (Solar) %	31	GST Outboard 32°C (89.6°F)	40	104
Tdw-K	0.02	GST Inboard 24°C (75.2°F)	39	102
Tdw-ISO	0.24	Light to Solar Gain (LSG)	1.08	
Tuv %	<1	Effective Aperture	30%=0.022	80%=0.044

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.57	79.00	89.21	-14.20	87.25
Reflectance	0.56	19.81	34.81	-5.81	9.98
R (Transmittance)	241				
G (Transmittance)	229				
B (Transmittance)	6				
Color Rendering Index (Transmittance)	60				

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 #0004.

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