

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® #0002 interlayer | | | | |
|---|------|---------------------------------------|-----------|-----------|
| 3 mm (1/8 inch) clear | | | | |
| - Vanceva® #0002 ; 0.38 mm (0.015 inch) - | | | | |
| 3 mm (1/8 inch) clear | | | | |
| Aquamarine | | | | |
| Optical (%) and Thermal Properties | | | SI | IP |
| Solar Transmittance % | 68 | U factor W/m2-K(Btu/hr-ft2-F) | 5.73 | 1.01 |
| Reflectance Solar (front) % | 7 | Shading Coefficient | 0.87 | 0.87 |
| Reflectance Solar (back) % | 7 | Solar Heat Gain Coefficient (SHGC; g) | 0.75 | 0.75 |
| Visible Light Transmittance % | 78 | Relative Heat Gain W/m2 (Btu/hr-ft2) | 589 | 187 |
| 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) % | 25 | GST Outboard 32°C (89.6°F) | 37 | 98 |
| Tdw-K | 0.32 | GST Inboard 24°C (75.2°F) | 37 | 98 |
| Tdw-ISO | 0.60 | Light to Solar Gain (LSG) | 1.04 | |
| Tuv % | <1 | Effective Aperture | 30%=0.022 | 80%=0.044 |

| Color Properties | Dom. WL | Purity | L* | a* | b* |
|---------------------------------------|---------|--------|-------|--------|-------|
| Transmittance | 0.48 | 10.80 | 90.82 | -11.40 | -6.58 |
| Reflectance | 0.48 | 10.59 | 32.49 | -3.27 | -3.86 |
| R (Transmittance) | 197 | | | | |
| G (Transmittance) | 236 | | | | |
| B (Transmittance) | 239 | | | | |
| Color Rendering Index (Transmittance) | 85 | | | | |

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 #0002.

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