

PRODUCT DESCRIPTION

Pacifica® glass by Vitro Architectural Glass is a soda-lime float glass product with a rich blue color that deepens as thickness increases. In a 6mm thickness, Pacifica® glass provides 42% visible light transmittance, with an excellent solar heat gain coefficient of 0.49 for improved solar control. Pacifica® glass mechanical and physical properties are similar to other soda-lime float glass products.

APPROXIMATE WEIGHTS

Per m ²		Per ft ²	
thickness	weight	thickness	weight
6.0 mm	14.2 kg	¼	2.9 lbs

MECHANICAL PROPERTIES

Knoop Hardness Number (indentation hardness) indenter load--500 gm	470 kgf/mm ²	
Poisson's Ratio	0.22	
Modulus of Elasticity (Young's)	73.1 GPa	10,600,000 psi
Tensile Strength (Determined as Modulus of Rupture, ultimate)	41.4 MPa	6,000 psi
Density at 21°C (70°F)	2.51 g/cm ³	157 lb/ft ³

COLOR

	6.0mm
Transmitted Color: D65, 10° L*	71.8
a*	-10.0
b*	-15.3
Hue Angle (°)	237
Dominant wavelength: C, 2°	483 nm

THERMAL PROPERTIES

Hemispherical Emissivity at -18 to 66 °C (0 to 150°F)) glass	0.84	
Expansion Coefficient (linear) 20 to 300°C (68 to 572°F)	8.6*10 ⁻⁶ / °C	4.8*10 ⁻⁶ / °F
Specific heat at 0 to 100°C (32 to 212°F)	858 J/kg-K	0.205 Btu/lb-°F
Thermal Conductivity (k) at 50°C (122°F)	0.937 W/m-K	0.542 Btu/hr-ft-°F
Softening Point	722°C	1331°F
Annealing Point	542°C	1008°F
Strain Point	505°C	941°F

CHEMICAL COMPOSITION

SiO ₂	73%
Na ₂ O	14%
CaO	9%
MgO and Trace elements	4%

SUSTAINABILITY

To provide architects with the assurance and documentation they need to meet and verify their sustainability goals, Vitro Architectural Glass participates in a range of programs and initiatives. Resources available include, but are not limited to:

Type III Environmental Product Declarations

Cradle to Cradle Certified™ Bronze with associated Gold Material Health Certificate

LEED® and Living Building Challenge documentation

Material Ingredient Disclosure and Safety Data Sheets

Annual Corporate Sustainability Report

Further information is available through VitroGlazings.com or by calling 855-887-6457 (VTRO GLS)



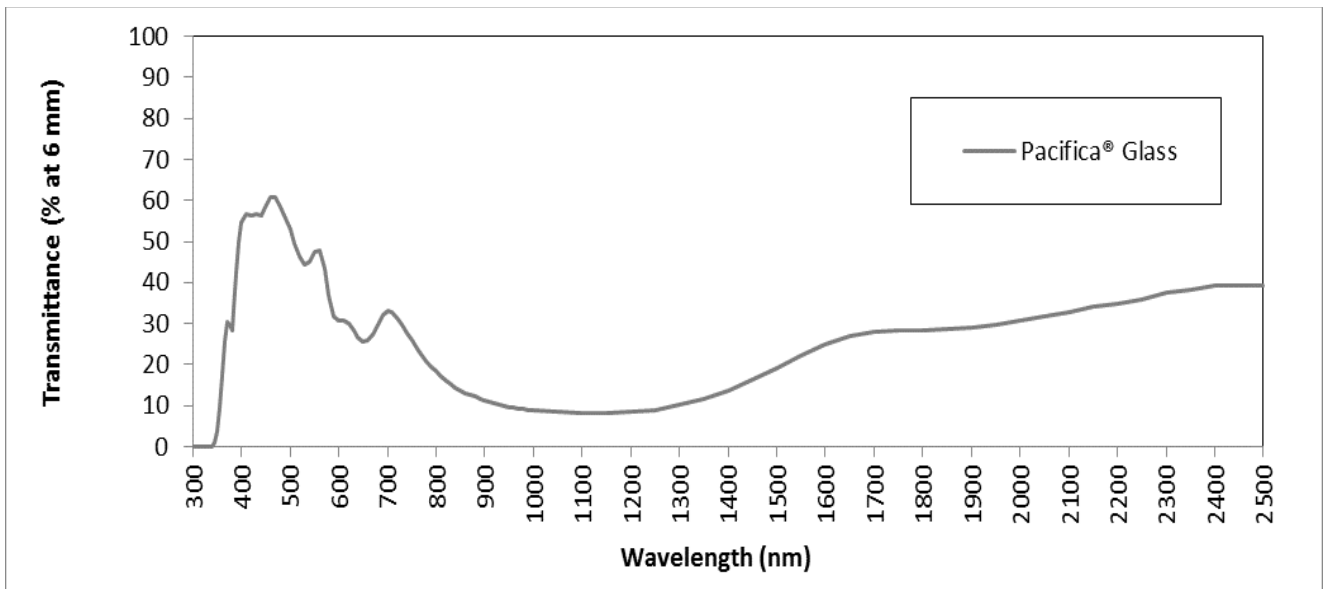
SOLAR PERFORMANCE VALUES ^[1]

Glass Thickness		Transmittance				Reflectance	
inches	mm	Ultra-violet (%)	Visible (%)	Infrared (%)	Total Solar (%)	Visible (%)	Total Solar (%)
¼	6.0	15	42	15	27	5	5

^[1] Figures may vary due to manufacturing tolerances. All tabulated solar performance data are based on the methodology prescribed in ISO 9050, 2003 except Infrared, which is based on the solar irradiance data prescribed by ISO 9050, 2003 from 780 to 2500 nm. Slight changes in transmitted optical properties may occur on exposure to sunlight.

Transmittance (% at 6 mm/0.223")

Wavelength (nm)	Pacifica® Glass %T	Wavelength (nm)	Pacifica® Glass %T	Wavelength (nm)	Pacifica® Glass %T	Wavelength (nm)	Pacifica® Glass %T	Wavelength (nm)	Pacifica® Glass %T
300	0.1	430	56.6	660	25.8	890	11.6	1600	24.9
305	0.1	440	56.3	670	27.3	900	11.2	1650	26.9
310	0.0	450	58.5	680	29.8	910	10.9	1700	27.9
315	0.0	460	60.8	690	32.2	920	10.5	1750	28.3
320	0.0	470	60.6	700	33.2	930	10.2	1800	28.4
325	0.0	480	58.4	710	32.7	940	9.9	1850	28.7
330	0.0	490	55.5	720	31.3	950	9.7	1900	29.0
335	0.0	500	52.8	730	29.6	960	9.5	1950	29.8
340	0.2	510	49.6	740	27.7	970	9.3	2000	30.6
345	1.0	520	46.6	750	25.9	980	9.2	2050	31.7
350	3.9	530	44.5	760	24.0	990	9.0	2100	32.9
355	9.6	540	45.0	770	22.5	1000	8.9	2150	34.2
360	17.4	550	47.3	780	20.9	1050	8.5	2200	34.8
365	25.4	560	47.6	790	19.6	1100	8.3	2250	36.0
370	30.4	570	43.5	800	18.3	1150	8.2	2300	37.5
375	29.8	580	36.9	810	17.2	1200	8.5	2350	38.4
380	28.4	590	31.7	820	16.1	1250	9.0	2400	39.2
385	33.3	600	30.8	830	15.3	1300	10.1	2450	39.3
390	42.3	610	30.7	840	14.5	1350	11.5	2500	39.1
395	50.0	620	30.0	850	13.6	1400	13.8		
400	54.6	630	28.4	860	13.0	1450	16.3		
410	56.8	640	26.6	870	12.6	1500	19.1		
420	56.4	650	25.6	880	12.2	1550	22.2		



ADDITIONAL INFORMATION/DOCUMENTS

The following documents can be referenced for additional information regarding Pacifica® glass; Pacifica® Performance Data, Vitro Float Glass Warranty, Vitro Float Glass SDS, C2C Material Health Certificate, Vitro Float Glass EPD