Alkali Borosilicate 7056 Glass designation: Code

Color: White

Glass type: Alkali borosilicate





Kovar sealing glass material

~	27. 74.
Metric	English
2.29 g/cm3	143 lb/ft ³
6.4 x10 ³ kg/mm ²	9.2 x 10 ⁶ psi
0.21	
$2.7 \times 10^3 \text{kg/mm}^2$	3.8 x 10 ⁶ psi
1058 °C	1936 °F
718 °C	1324 °F
512 [℃]	954 °F
	2.29 g/cm3 6.4 x10 ³ kg/mm ² 0.21 2.7 x 10 ³ kg/mm ² 1058 °C 718 °C

Strain Point (10¹⁴ poise)

51.5 x 10⁻⁷ / °C 54.5 x 10⁻⁷ / °C $28.5 \times 10^{-7} / ^{\circ F}$ $30.0 \times 10^{-7} / ^{\circ F}$

472 °C

882 °F

Thermal Coefficient of Expansion (0 °C - 300 °C)

Electrical

(25 °C to set point 477 °C)

Log₁₀ Volume Resistivity @ 250 °C 10.3 ohm-cm Log₁₀ Volume Resistivity @ 350 °C 8.4 ohm-cm Dielectric Constant @ 20 °C, 1 MHz 5.7 Loss Tangent @ 20 °C, 1 MHz 0.27%

Optical

Refractive index (589.3nm) 1.486

Chemical Weathering: 2 Acid Durability: 4

Weathering is defined as corrosion by atmospheric-borne gases and vapors such as water an carbon dioxide. Glasses rated(1) will almost never show weathering effects;those rated (2) will occasionally be troublesome,particulary if weathering products cannot be removed; those glasses rated (3) will require more carreful consideration.

Acid durability classified glasses according to their behavior in 5% hydrochloric acid at 95 °C (203 °F) for 24 hours. Classification: Thickness loss (inches) $(1) < 10^{-6}$ $(2) 10^{-6} - 10^{-5}$ $(3) 10^{-5} - 10^{-4}$ $(4) > 10^{-4}$

Non-toleranced numerical values are typical values