

Glass designation :	Alkali Barium	Code	9013
Color : White			
Glass type : Alkali barium (Low Lead)			



Excellent for glass to metal sealing, historically leveraged in space applications

Mechanical

	Metric	English
Density	2.640 g/cm ³	165 lb/ft ³

Viscosity

Softening Point (10 ^{7.6} poise)	656 °C	1213 °F
Annealing Point (10 ¹³ poise)	462 °C	864 °F
Strain Point (10 ¹⁴ poise)	423 °C	793 °F

Thermal

Coefficient of Expansion (0 °C - 300 °C) (25 °C to set point 428 °C)	88.5 x 10 ⁻⁷ / °C	49.2 x 10 ⁻⁷ / °F
	99.2 x 10 ⁻⁷ / °C	55.1 x 10 ⁻⁷ / °F

Electrical

Log ₁₀ Volume Resistivity @ 250 °C	8.9 ohm-cm
Log ₁₀ Volume Resistivity @ 350 °C	7.0 ohm-cm
Dielectric Constant @ 20 °C, 1 MHz	6.7
Loss Tangent @ 20 °C, 1 MHz	0.20%

Chemical

Weathering: 3
Acid Durability: 2

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