

Glass designation :	Borosilicate	Code	7052
Color : White			
Glass type : borosilicate			



*Compatible with
 Kovar or Kovar-
 like alloys;
 thermal shock
 resistance*

Mechanical	Metric	English
Density	2.27 g/cm ³	141.7 lb/ft ³
Young's Modulus	5.76 x 10 ³ kg/mm ²	8.2 x 10 ⁶ psi
Poisson's Ratio	0.22	
Shear Modulus	2.39 x 10 ³ kg/mm ²	3.4 x 10 ⁶ psi
Knoop Hardness (KNH ₁₀₀)	403	5.73 x 10 ⁵ psi
Viscosity		
Working Point (10 ⁴ poise)	1128 °C	2062 °F
Softening Point (10 ^{7.6} poise)	712 °C	1314 °F
Annealing Point (10 ¹³ poise)	484 °C	903 °F
Strain Point (10 ¹⁴ poise)	440 °C	824 °F
Thermal		
Coefficient of Expansion (0 °C - 300 °C) (25 °C to set point 441 °C)	47.0 x 10 ⁻⁷ / °C 53.1 x 10 ⁻⁷ / °C	26.1 x 10 ⁻⁷ / °F 29.5 x 10 ⁻⁷ / °F
Electrical		
Log ₁₀ Volume Resistivity @ 250 °C	9.2 ohm-cm	
Log ₁₀ Volume Resistivity @ 350 °C	7.4 ohm-cm	
Dielectric Constant @ 20 °C, 1 MHz	5.1	
Loss Tangent @ 20 °C, 1 MHz	0.15%	
Optical		
Refractive index (589.3nm)	1.484	
Chemical		
Weathering: 2		
Acid Durability:3		
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		