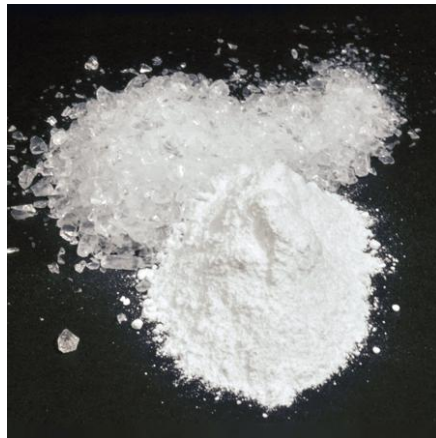


Corning® Glass Material Properties

Glass Type: Alkali Borosilicate

Corning Code: 7056



Kovar sealing glass material

	Metric	English
Mechanical		
Density	2.29 g/cm ³	143 lb/ft ³
Young's Modulus	6.4 x 10 ³ kg/mm ²	9.2 x 10 ⁶ psi
Poisson's Ratio	0.21	
Shear Modulus	2.39 x 10 ³ kg/mm ²	3.8 x 10 ⁶ psi
Viscosity		
Working Point (10 ⁴ poise)	1058 °C	1936 °F
Softening Point (10 ^{7.6} poise)	718 °C	1324 °F
Annealing Point (10 ¹³ poise)	512 °C	924 °F
Strain Point (10 ¹⁴ poise)	472 °C	882 °F
Thermal		
Coefficient of Expansion (0 °C - 300 °C) (25 °C to set point 679 °C)	51.5 x 10 ⁻⁷ / °C 54.5 x 10 ⁻⁷ / °C	28.5 x 10 ⁻⁷ / °F 30.0 x 10 ⁻⁷ / °F
Optical		
Refractive Index (589.3 nm)	1.484	
Birefringence Constant	300 $\frac{\text{nm/cm}}{\text{kg/mm}^2}$	
Electrical		
Log ₁₀ Volume Resistivity @ 250 °C	10.3 ohm-cm	
Log ₁₀ Volume Resistivity @ 250 °C	8.4 ohm-cm	
Dielectric Constant @ 20 °C, 1 MHz	5.7	
Loss Tangent @ 20 °C, 1 MHz	0.27%	

Available in US Standard Mesh 4 through 325 with a minimum order quantity of 100 lbs.