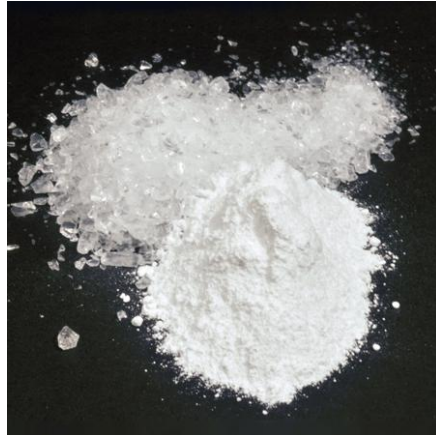


# Corning® Glass Material Properties

Glass Type: Borosilicate

Corning Code: 7052



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

## Metric

## English

### Mechanical

Density	2.27 g/cm <sup>3</sup>	141.7 lb/ft <sup>3</sup>
Young's Modulus	5.76 x 10 <sup>3</sup> kg/mm <sup>2</sup>	8.2 x 10 <sup>6</sup> psi
Poisson's Ratio	0.22	
Shear Modulus	2.39 x 10 <sup>3</sup> kg/mm <sup>2</sup>	3.4 x 10 <sup>6</sup> psi
Knoop Hardness (KNH <sub>100</sub> )	403	

### Viscosity

Working Point (10 <sup>4</sup> poise)	1128 °C	2062 °F
Softening Point (10 <sup>7.6</sup> poise)	712 °C	1314 °F
Annealing Point (10 <sup>13</sup> poise)	484 °C	903 °F
Strain Point (10 <sup>14</sup> poise)	440 °C	824 °F

### Thermal

Coefficient of Expansion (0 °C - 300 °C)	47.0 x 10 <sup>-7</sup> / °C	26.1 x 10 <sup>-7</sup> / °F
(25 °C to set point 679 °C)	53.1 x 10 <sup>-7</sup> / °C	29.5 x 10 <sup>-7</sup> / °F

### Optical

Refractive Index (589.3 nm)	1.484
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### Electrical

Log <sub>10</sub> Volume Resistivity @ 250 °C	9.2 ohm-cm
Log <sub>10</sub> Volume Resistivity @ 250 °C	7.4 ohm-cm
Dielectric Constant @ 20 °C, 1 MHz	5.1
Loss Tangent @ 20 °C, 1 MHz	0.15%

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