

Corning 7070 Lithia Potash Borosilicate Crushed/Powdered Glass

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Available in mesh sizes 4 through 325 and can be customized. Devitrifies before reaching a softening point. Used for sealing and other applications. Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-7070-Lithia-Potash-Borosilicate-CrushedPowdered-Glass.php

Physical Properties	Metric	English	Comments
Density	2.13 g/cc	0.0770 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	51.0 GPa	7400 ksi	
Poissons Ratio	0.22	0.22	
Shear Modulus	20.9 GPa	3030 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	3.20 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 0.000 - 300 $^{\circ}\text{C}$	1.78 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 32.0 - 572 $^{\circ}\text{F}$	
Working Point	1068 $^{\circ}\text{C}$	1954 $^{\circ}\text{F}$	10 ^{<sup>4</sup>} Poise
Annealing Point	496 $^{\circ}\text{C}$	925 $^{\circ}\text{F}$	10 ^{<sup>13</sup>} Poise
Strain Point	456 $^{\circ}\text{C}$	853 $^{\circ}\text{F}$	10 ^{<sup>14</sup>} Poise

Electrical Properties	Metric	English	Comments
Volume Resistivity	40000 ohm-cm @Temperature 350 $^{\circ}\text{C}$	40000 ohm-cm @Temperature 662 $^{\circ}\text{F}$	
	1.30e+6 ohm-cm @Temperature 250 $^{\circ}\text{C}$	1.30e+6 ohm-cm @Temperature 482 $^{\circ}\text{F}$	
Dielectric Constant	4.6 @Frequency 1e+6 Hz	4.6 @Frequency 1e+6 Hz	
Dissipation Factor	0.00060 @Frequency 1e+6 Hz	0.00060 @Frequency 1e+6 Hz	

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