

Mo-Sci Corporation GL-0179 Borosilicate Glass Spheres

Category : Ceramic , Glass , Oxide , Silicon Oxide

Material Notes:

Appearance: Solid clear borosilicate glass microspheres with white color in powder form. Typical applications of GL0179 beads include: calibration, high temperature spacer material for gauge control, coating, filler for plastic and etc. Information provided by Mo-Sci Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mo-Sci-Corporation-GL-0179-Borosilicate-Glass-Spheres.php

Physical Properties	Metric	English	Comments
Bulk Density	1.20 g/cc	0.0434 lb/in ³	of Dry Beads
Density	2.20 g/cc	0.0795 lb/in ³	
pH	7.0	7.0	in water

Mechanical Properties	Metric	English	Comments
Compressive Strength	187.6 MPa	27210 psi	(Crush Strength) 90% Survival, using Carver Hydraulic Press

Thermal Properties	Metric	English	Comments
CTE, linear	3.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	1.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 30.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 86.0 - 572 $\text{Å}^\circ\text{F}$	
Softening Point	830 $\text{Å}^\circ\text{C}$	1530 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.47 - 1.48	1.47 - 1.48	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	2.0 - 5.0 %	2.0 - 5.0 %	
B ₂ O ₃	10 - 15 %	10 - 15 %	
Na ₂ O	5.0 - 10 %	5.0 - 10 %	
SiO ₂	70 - 85 %	70 - 85 %	

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