



# MO-SCI Specialty Products, L.L.C.

A Subsidiary of MO-SCI Corporation

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## GL0179 DATA SHEET

### Appearance

Solid clear borosilicate glass microspheres with white color in powder form.

### Chemical Composition

Silica (SiO<sub>2</sub>) .....70 - 85 Wt%

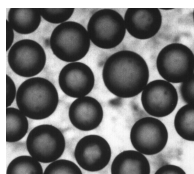
Boron oxide (B<sub>2</sub>O<sub>3</sub>) ..... 10 - 15 Wt%

Sodium oxide (Na<sub>2</sub>O) ..... 5 - 10 Wt%

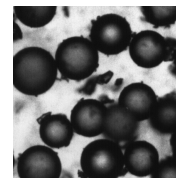
Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) ..... 2 - 5 Wt%

### Physical Properties

Specific Gravity .....	2.2 g/ cm <sup>3</sup>
Bulk Density of Dry Beads.....	1.2 g / cm <sup>3</sup> (71 lbs/ ft <sup>3</sup> )
pH in water @ 25 °C .....	7.0
Softening Temperature .....	830 °C
Index of Refraction .....	1.47 - 1.48 <sub>n<sub>D</sub></sub>
Coefficient of Thermal Expansion...	32 x 10 <sup>-7</sup> / °C at 30 to 300 ° C
Crush Strength (90% Survival).....	27,210 psi using Carver Hydraulic Press



Uncrushed



Crushed

### Applications

Typical applications of GL0179 beads including calibration, high temperature spacer material for gauge control, coating, filler for plastic and etc.