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**Appearance**

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

**Chemical Composition**

- Silica (SiO<sub>2</sub>)
- Boron oxide (B<sub>2</sub>O<sub>3</sub>)
- Sodium oxide (Na<sub>2</sub>O)
- Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>)

**Physical Properties**

Specific Gravity	2.2 (g/cm <sup>3</sup> )
Bulk Density of Dry Beads	1.2 g/cm <sup>3</sup> (75 lb/ft <sup>3</sup> )
pH in water @ 25 °C	7.0
Softening Temperature (T <sub>s</sub> )	830 ± 10 °C
Index of Refraction	1.47-1.48 (nd)
Coefficient of Thermal Expansion	32 ± 10 x 10 <sup>-7</sup> /°C (30 - 300 °C)
Crush Strength (90% Survival) using Carver Hydraulic Press	27,210 psi

**Applications**

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

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