



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

A Subsidiary of MO-SCI Corporation

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GL-0179 DATA SHEET

Appearance

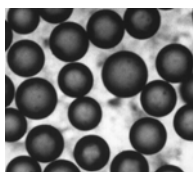
Solid clear borosilicate glass microspheres with white color in powder form.

Chemical Composition (by weight)

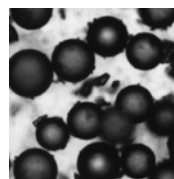
Silica (SiO ₂)	70~85%
Boron oxide (B ₂ O ₃)	10~15%
Sodium oxide (Na ₂ O)	5~10%
Aluminum oxide (Al ₂ O ₃)	2~5%

Physical Properties

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



Uncrushed



Crushed

Size Availability

Size* in
Micron (μm)
45-210 μm
>90% within size range, defected microspheres less than 6%.

Applications

Typical applications of GL-0179 beads including: calibration, high temperature spacer material for gauge control, coating, filler for plastic and etc.