



Mo-Sci Specialty Products, L.L.C.

A Subsidiary of MO-SCI Corporation

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GL0191 DATA SHEET

Appearance

Solid soda-lime glass beads of various colors.

Chemical Composition (by weight)

Silica (SiO ₂)	65~75%
Aluminum oxide (Al ₂ O ₃)	0~5%
Calcium oxide (CaO)	6~15%
Magnesium oxide (MgO)	1~5%
Sodium oxide (Na ₂ O).....	10~20%
Iron Oxide (Fe ₂ O ₃)	<0.8%

Physical Properties

Specific Gravity	2.5 (g/cm ³)
Bulk Density of Dry Beads.....	1.3 g per cm ³ (77 lbs/ft ³)
pH in water @ 25°C	7.8
Softening Temperature	650°C
Thermal Conductivity.....	0.9-1.3 W/m.K
Coefficient of Thermal Expansion..	90x10 ⁻⁷ /°C (30-300° C)
Compression Strength.....	29 kg/mm ² (39,875 psi)
Vickers Hardness.....	550 kg/mm ² (756,250 psi)
Mohs Hardness.....	6-7
Index of Refraction.....	1.51(n _D)

Applications

Typical applications of GL0191 glass spheres include: spacer for gauge control, thermal expansion reduction filler for adhesives and polymers.