



573-364-2338



mo-sci@mo-sci.com



MO SCI, LLC

### Appearance

Clear spheres, fibers, powder, or bulk glass which exhibit blue fluorescence.

### Chemical Composition

- Silica (SiO<sub>2</sub>)
- Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)
- Calcium Oxide (CaO)
- Magnesium Oxide (MgO)
- Sodium Oxide (Na<sub>2</sub>O)
- Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>)
- Rare Earth Oxide

### Physical Properties

Specific Gravity	2.60 (g/cm <sup>3</sup> )
Excitation	365 nm
Emission	Blue
Softening Temperature (T <sub>d</sub> )	607 ± 10 °C
Glass Transition Temperature	550 ± 10 °C
Coefficient of Thermal Expansion	95 ± 10 x 10 <sup>-7</sup> /°C (30 - 300 °C)
Compression Strength	29 kg/mm <sup>2</sup> (41,200 psi)
Vickers Hardness	550 kg/mm <sup>2</sup> (782,000 psi)
Mohs Hardness	6 - 7

### Applications

Typical applications of GL1818 include medical imaging, biomedical diagnostics and research, testing media, tracing and art glass enamels.

Technical information, recommendations, and other statements contained in this document or provided by MO SCI personnel are based on tests or experience that MO SCI believes are reliable, but the accuracy or completeness of such information is not guaranteed. Such information is intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information.