

### Appearance

Compliant (viscous) sealing glass white colored in powder form.

### Chemical Composition (by weight)

Boron oxide (B <sub>2</sub> O <sub>3</sub> )	33 - 43 %
Barium oxide (BaO)	18 - 28 %
Strontium oxide (SrO)	3 - 7 %
Silica (SiO <sub>2</sub> )	20 - 30 %
Calcium oxide (CaO)	3 - 7 %
Alumina (Al <sub>2</sub> O <sub>3</sub> )	2 - 6 %

### Physical Properties

Specific Gravity	3.2 (g/cm <sup>3</sup> )
Glass Transition Temperature	617 ± 10 °C
Softening Temperature (T <sub>d</sub> )	638 ± 10 °C
Coefficient of Thermal Expansion	9.4 x 10 <sup>-6</sup> /°C (50 - 500 °C)

### Recommended Firing Conditions

Ramp to between 850 and 900 °C and hold for 1 hour.  
Heating or cooling rate: 3 to 10 °C/min

### Applications

Operational Temperature: up to 900 °C

The typical application of GL1835 sealing glass is to seal ceramics and metals at high temperatures. Common applications of sealing glass include: solid oxide fuel cells (SOFCs), solar cells, sodium ion batteries, high-temperature sensors, and other sealing, bonding, or coating applications.