

### Appearance

Sealing glass white colored in powder form.

### Chemical Composition

Lead-free, barium alkali glass

### Physical Properties

Specific Gravity	2.6 (g/cm <sup>3</sup> )
Glass Transition Temperature	459 ± 10 °C
Softening Temperature (T <sub>d</sub> )	512 ± 10 °C
Coefficient of Thermal Expansion	10.9 x 10 <sup>-6</sup> /°C (50 - 300 °C)

### Electrical Properties

Log10 Volume Resistivity @ 250 °C	8.6 ohm·cm
Log10 Volume Resistivity @ 350 °C	6.8 ohm·cm
Dielectric Constant @ 25 °C, 1MHz	6.5

### Recommended Firing Conditions

Ramp to 1020 °C and hold for 0.5 to 1 hour.  
Heating or cooling rate: 3 to 10 °C/min

### Applications

Operational Temperature: up to 600 °C

The typical application of GL1860 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.