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Appearance

Sealing glass white colored in powder form.

Chemical Composition

Lead-free, barium alkali glass

Physical Properties

| | |
|---|---|
| Specific Gravity | 2.6 (g/cm ³) |
| Glass Transition Temperature | 459 ± 10 °C |
| Softening Temperature (T _d) | 512 ± 10 °C |
| Coefficient of Thermal Expansion | 10.9 x 10 ⁻⁶ /°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.