# GF Series

## Two-part potting compound

GF series thermally conductive potting encapsulant provides thermal conductivity and electrical insulative characteristics delivered in a two-part dispensable and easily automated product. Additionally, the GF series provides protection from shock, dust, water, and vibration.

## FEATURES / BENEFITS

- 0.8– 3.6W/m.K
- Electrically insulating
- High conformability
- Flexible working time

## TYPICAL APPLICATIONS

- Industrial: LEDs, Power Supplies
- Automotive: OBC, DC/DC Converter, Amplifiers
- Consumer Electronics: DC Converters, High Voltage Applications

| Typical Properties | | | | | |
|---|---|---|---|---|---|
| **Attribute** | **Value** | | | | **Test Method** |
| | GF100 | GF200 | GF300 | GF400 | - |
| Composition | Ceramic filler + Silicone | | | | |
| Color (A/B) | White/White | Pink/White | White/Blue | White/Yellow | Visual |
| Density(g/cc) | 1.83 | 2.5 | 3.0 | 3.1 | ASTM D792 |
| Viscosity (cps) A/B | Part A:10,000<br>Part B:10,000 | Part A: 6,000<br>Part B: 6,000 | Part A:11,000<br>Part B:11,000 | Part A: 15,000<br>Part B: 15,000 | ASTM D2196 |
| Hardness (Shore OO) | 90 | 65 | 60 | 60 | ASTM D2240 |
| Usage Temperature(°C) | -40 to 200 | -60 to 200 | -60 to 200 | -60 to 200 | - |
| Flammability | V-0 | V-0 | V-0 | V-0 | UL 94 |
| **Electrical** | | | | | |
| Breakdown Voltage (kV/mm) | ≥10.0 | ≥7.0 | > 7.0 | > 7.0 | ASTM D149 |
| Dielectric Constant@1MHz | 5.5 | 6.0 | 6.7 | 6.7 | ASTM D150 |
| Volume Resistivity(Ω.cm) | $10^{15}$ | > $10^{11}$ | $10^{13}$ | > $10^{13}$ | ASTMD257 |
| **Thermal** | | | | | |
| Thermal Conductivity(W/m.K) | 0.8 | 2.0 | 3.0 | 3.6 | ISO 22007-2 |



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