

MG Chemicals offers 1-part, silicone-free, thermally conductive gels for exceptional thermal management of energy intensive devices. These products have very high thermal conductivity, flame retardancy and an ideal viscosity for form-in-place application.

The low modulus of these gels makes them an ideal material for placing near delicate components or aggressive thermal cycling applications. These gels do not cure so devices can be powered up for use immediately following application.

Features & Benefits

- Flame retardant—meets UL94 V-0
- Low bond line thickness
- Low modulus—ideal for delicate components
- Wide operating temperature range
- Tack adhesion—does not run
- Reworkable

Applications

- Bonding heat sinks
- Power semiconductor devices
- Flip chip BGA heat spreaders
- Battery modules and battery packs
- LED lighting, power supplies, telecommunication towers, data servers, PCs for gamers

Thermal Gels

8327GL3

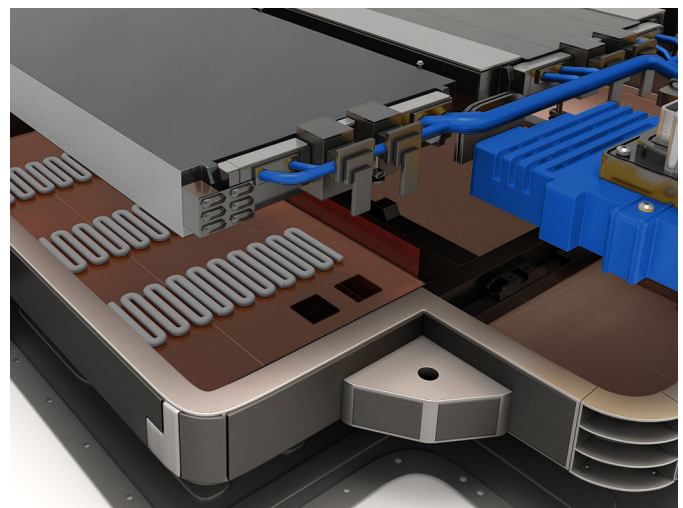
- Thermal conductivity of 3.5 W/(m·K)
- Service temperature range of -55 to 120 °C

8327GL5

- Thermal conductivity of 5.1 W/(m·K)
- Service temperature range of -55 to 150 °C

8327GL6

- Thermal conductivity of 6.0 W/(m·K)
- Service temperature range of -55 to 120 °C



Form-In-Place Thermal Gel



| | 8327GL3 | 8327GL5 | 8327GL6 |
|----------------------------------|-----------------------|----------------------|----------------------|
| PROPERTIES | | | |
| Color | White | Grey | Grey |
| Density | 2.5 g/mL | 2.3 g/mL | 2.3 g/mL |
| Viscosity | 7 000 Pa·s | 3 500–5 000 Pa·s | 7 000 Pa·s |
| Resistivity | 10 ¹³ Ω·cm | 10 ⁹ Ω·cm | 10 ⁹ Ω·cm |
| Thermal Conductivity @ 25 °C | 3.5 W/(m·K) | 5.1 W/(m·K) | 6.0 W/(m·K) |
| Breakdown Voltage @ 2.2 mm | 14 000 V | 3 200 V | 3 200 V |
| Dissipation Factor @ 1 kHz | 0.005 | 0.005 | 0.005 |
| Flow Rate @ 90 psi, 0.1" orifice | 5–7 | 12–15 | 4–6 |
| Service Temperature | -55 to 120 °C | -55 to 150 °C | -55 to 120 °C |
| Intermittent Temperature | 150 °C | 180 °C | 150 °C |
| AVAILABLE PACKAGING | | | |
| Net contents | | | |
| | 67 g (Jar) | 56 g (Jar) | 54 g (Jar) |
| | 66 g (Cartridge) | 66 g (Cartridge) | 66 g (Cartridge) |
| | 294 g (Cartridge) | 294 g (Cartridge) | 294 g (Cartridge) |

