



DUPONT™ TEMPRION™ TG0520

NON-SILICONE THERMAL GREASE

DESCRIPTION

DuPont™ Temprion™ TG0520 is a non-silicone thermal grease offering high thermal conductivity with the lowest phase separation of our Temprion™ thermal greases. The silicone-free formulation of Temprion™ TG0520 eliminates concerns of silicone deposition on optics and electronics within any package.

Temprion™ TG0520 is highly resistant to degradation during thermal cycling and exhibits thixotropic behavior to allow for easy spreading and use in thin film applications.

APPLICATIONS

- Thermal interface material
- Heat sink compound
- CPU/GPU
- IGBT
- LED

FEATURES

- Low thermal resistance
- High thermal stability with limited:
 - Pump out
 - Phase separation
- Easy spreading
- Compatible with polymer and metal substrates
- UL94 flammability rating (pending)

Table 1 – Typical Properties of DuPont™ Temprion™ TG0520

| Property | TG0520 | Test Method |
|---|-------------|---------------|
| Thermal Conductivity, W/m•K | 2.4 | ASTM D5470 |
| Thermal Resistance, °C•cm ² /W (°C•in ² /W) @ 1 MPa (145 psi) | 0.20 (0.03) | ASTM D5470 |
| Viscosity @ 10 s ⁻¹ and 25 °C, cP | 360,000 | DuPont Method |
| Specific Gravity @ 25 °C, g/cm ³ | 3.0 | DuPont Method |
| Flammability | Pending | UL94 |
| RoHS Compliant | Yes | N/A |

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CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102-4.

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