



DUPONT™ TEMPRION™ TG0510

NON-SILICONE THERMAL GREASE

DESCRIPTION

DuPont™ Temprion™ TG0510 is a non-silicone thermal grease offering the lowest thermal resistance of our Temprion™ thermal grease offerings. The silicone-free formulation of Temprion™ TG0510 exhibits limited pump out and phase separation in comparison to silicone-based thermal grease formulations, eliminating concerns of silicone deposition on optics and electronics within any package.

Temprion™ TG0510 exhibits a relatively low viscosity and thixotropic behavior to allow for easy spreading and use in application.

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™ TG0510

Property	TG0510	Test Method
Thermal Conductivity, W/m•K	1.3	ASTM D5470
Thermal Resistance, °C•cm ² /W (°C•in ² /W) @ 1 MPa (145 psi)	0.03 (0.005)	ASTM D5470
Viscosity @ 10 s ⁻¹ and 25 °C, cP	30,000	DuPont Method
Specific Gravity @ 25 °C, g/cm ³	3.3	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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