

TGZ - Thermal Grease Series

Thermal Properties

	TGZ10	TGZ20	TGZ30	Test Method
Thermal Conductivity, W/m·K	1 ± 0.2	2 ± 0.2	3 ± 0.25	ASTM D5470
Thermal Resistance, °C·in ² /W	0.25	0.12	0.08	

Physical Properties

Appearance	White Paste			Visual
Metal corrosion(100°C,3h)	OK			SH/T0331-92
Viscosity mPa·s@25°C	5,000,000	6,000,000	3,000,000	Rheometer DHR-2
Temperature Range, °F (°C)	-58 - 392 (-50 - 200)	-58 - 392 (-50 - 200)	-58 - 392 (-50 - 200)	—
Density, lb _m /in ³ (g/cc)	2.4 ± 0.2	2.8 ± 0.2	3.2 ± 0.2	ASTM D792
Solubility in Water (200°C, 24hr), ppm	300 max	200 max	200 max	SH/T0324-92
Curing Temperature, °F (°C)	266 (130)	266 (130)	266 (130)	—
Curing Time, min	30	30	30	—

Electrical Properties

Volume Resistivity, Ω·cm	1.0x10 ¹⁴ min	1.0x10 ¹⁴ min	1.0x10 ¹⁴ min	ASTM D257
Breakdown Voltage, kV	8 min	8 min	8 min	ASTM D149

Regulatory Properties

RoHS Compliant	Yes	Yes	Yes	—
Shelf Life, (@25 °C) months	12	12	12	—