

## TGZ - Thermal Grease/Gel Series

### Thermal Properties

	TGZ30	TGZ50	Test Method
Thermal Conductivity, W/m·K	3 ± 0.25	5 ± 0.2	ASTM D5470
Thermal Resistance, °C·in <sup>2</sup> /W @ 20 psi	0.08	0.04	

### Physical Properties

Appearance	PINK	GREY	Visual	
Viscosity mPa·s@25°C	3,000,000	3,000,000	Rheometer DHR-2	
Temperature Range, °F (°C)	-58 - 392 (-50 - 200)	-58 - 392 (-50 - 200)	—	
Density, lb <sub>m</sub> /in <sup>3</sup> (g/cc)	3.2 ± 0.2	3.2 ± 0.2	ASTM D792	
Solubility in Water, % @ 200°C, 24hr	.2 max	.2 max	SH/T0324-92	
Curing Temperature, °F (°C)	266 (130)	266 (130)	—	
Curing Time, min	60	60	—	
Volatilize Point, ppm @ 220°C, 24 hr	200 max	200 max	GB269-85	
Coverage Area Per Gram, cm <sup>2</sup> /g	@ 1 mil thickness	12.7	13	—
	@ 2 mil thickness	6.35	6.5	
	@ 5 mil thickness	2.54	2.6	
	@ 10 mil thickness	1.27	1.3	

### Electrical Properties

Volume Resistivity, Ω·cm	1.0x10 <sup>14</sup> min	1.0x10 <sup>14</sup> min	Q/SC004-06 GB1410-89
Breakdown Voltage, kV	8 min	2.5 min	Q/SC004-06 GB1410-89

### Regulatory Properties

RoHS Compliant	Yes	Yes	—
Shelf Life, (@25 °C) months @ 25°C	6	6	—