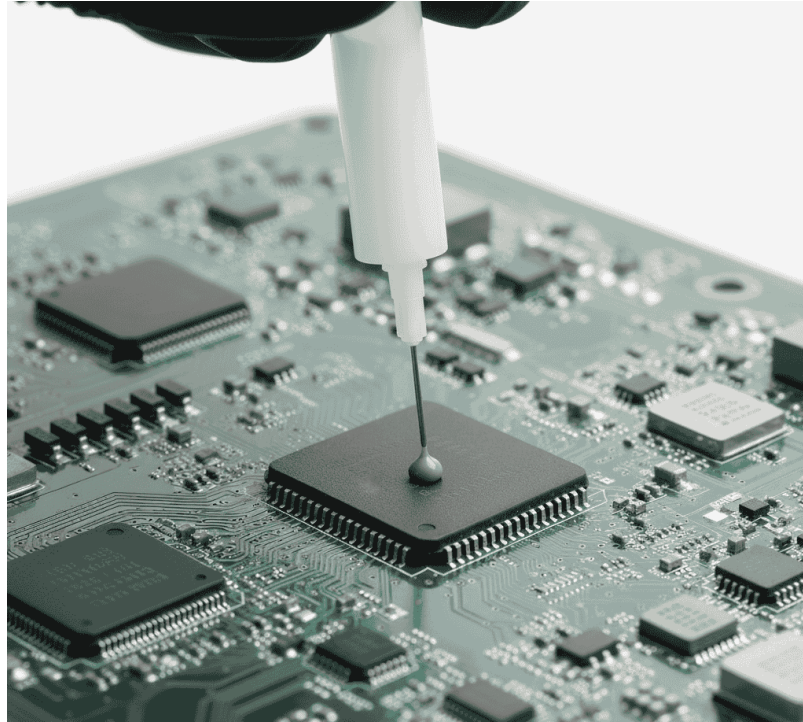


TGR-series 1.0 – 5.0 W/mK



Product Highlights

- Low thermal resistance
- Slightly fluid to effectively fill gaps
- Stable and compliant with RoHS and other environmental standards

Applications

- CPUs (laptops, desktops, servers)
- ASIC chips
- Microprocessors and graphics processors
- Northbridge chipsets
- Integrated Gate Bipolar Transistors

The TGR series is a high-performance silicone-based thermal grease engineered for superior heat dissipation. Its excellent wetting properties allow it to fill surface micro-structures effectively, creating an interface with very low thermal resistance. Highly reliable, the grease remains stable over time without drying, separating, or hardening. Typical application thickness ranges from 0.05 to 0.15 mm.

The TGR series is ideal for managing heat dissipation in general components. Its viscous consistency allows it to evenly fill surface gaps, ensuring efficient thermal transfer. With low thermal resistance, it can be applied to heat sinks or thermal modules using screen printing or squeegee coating. Additionally, the material is RoHS compliant and meets other environmental standards, making it safe for both

TGR-series 1.0 – 5.0 W/mK

Specifications Table

Parameters	Units of Measure	TGR10	TGR10HV	TGR1S	TGRZT	TGR31	TGR31W	TGR4G	TGR50
Colour	–	White	White	White	Gray	Gray	White	Gray	Gray
Thermal Conductivity	W/m·K	1	1	1.5	2	3.1	3.1	4	5
Thermal Resistance	°C·in ² /W@50psi	0.025	0.025	0.027	0.023	0.009	0.009	0.01	0.007
	°C·cm ² /W@50psi	0.161	0.161	0.174	0.148	0.058	0.058	0.065	0.045
Viscosity	cps @23°C	5.0×10 ⁴	15.0×10 ⁴	1.2×10 ⁵	8.0×10 ⁴	1.5×10 ⁵	1.5×10 ⁵	1.3×10 ⁵	2.5×10 ⁵
Flammability Rating	–	V0	V0	V0	V0	V0	V0	V0	V0
Volume Resistivity	Ω·cm	≥7.0×10 ¹¹	≥7.0×10 ¹¹	≥1.0×10 ¹²	≥9.0×10 ¹³	≥1.0×10 ¹⁰	≥1.0×10 ¹⁰	≥1.0×10 ⁹	≥1.0×10 ⁹
Density	g/cm ³	2.5	2.5	2.55	2.6	2.75	2.75	2.82	2.92
Dielectric Constant	@1MHz	5.8	5.8	6.5	6.3	7.5	7.5	7.8	8.5
Operating Temperature	°C	-50~+150	-50~+150	-50~+150	-50~+150	50~+150	50~+150	-50~+15	-50~+150
RoHS	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes