

Specification Data Sheet

GC-5 THERMAL PASTE

GC-5 Thermally Conductive Compound

Product introduction

GC-5 is a high-performance thermal grease formulated with thermally conductive filler particles within a premium silicone polymer base. It is specifically engineered to enhance performance, reliability, and assembly efficiency for advanced integrated circuits (ICs).



Target Applications:

- High-performance computing microprocessors (MPUs)
- Server systems deployed in cloud computing, data networking, and telecommunications infrastructure
- Graphics processing units (GPUs) utilized in gaming consoles, autonomous driving systems, and artificial intelligence (AI) platforms.

Key Performance Features:

- Achieves an ultra-thin bond line thickness (BLT) of approximately 20 μm .
- Delivers exceptionally low thermal resistance: 0.053 $^{\circ}\text{C}\cdot\text{cm}^2/\text{W}$.
- Enables highly effective heat dissipation.

Value Proposition:

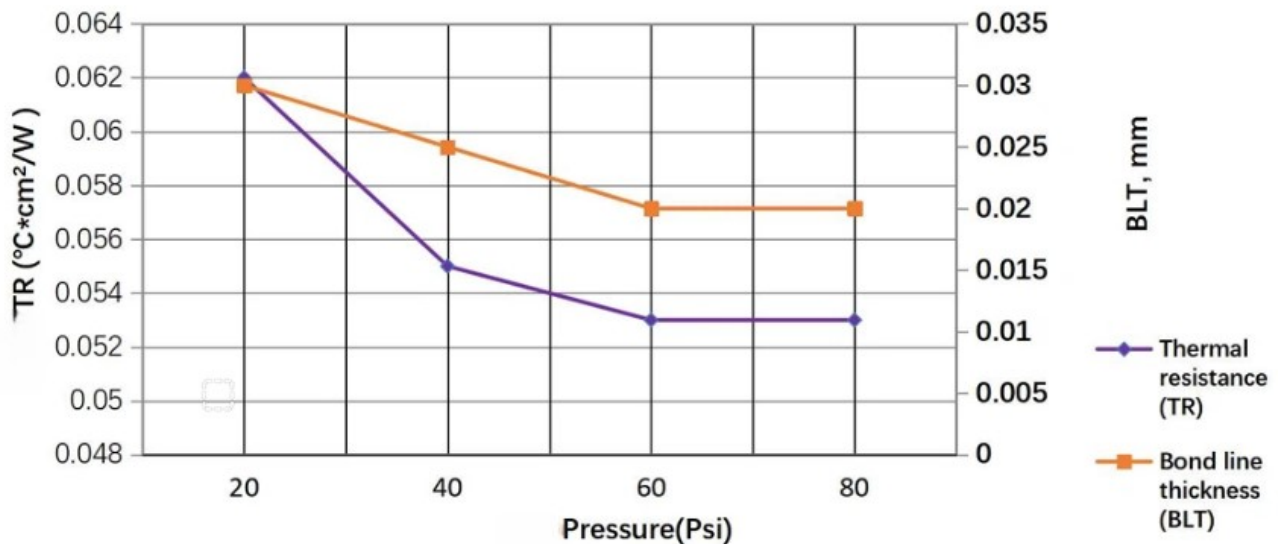
The superior thermal conductivity of GC-5 helps improve overall thermal management in electronic devices. Its deployment is widespread across CPUs, GPUs, UPS systems, and various other temperature-sensitive components.

Technical Information

Test Item	Unit	Data	Test Method
Color	-	Gray	Visual
Thermal Conductivity	W/m·K	4	ASTM D5470
Thermal Resistance @ 40psi, 80°C	$^{\circ}\text{C}\cdot\text{cm}^2/\text{W}$	≤ 0.053	ASTM D5470
Volatile Content (125°C, 48 hrs)	%	≤ 0.02	ASTM E595
Density	g/cm^3	2.8	ASTM D792
Volume Resistivity	$\Omega\cdot\text{cm}$	2.0×10^9	ASTM D257
Operating Temperature Range	$^{\circ}\text{C}$	-40 ~ 150	—
Viscosity @ 23°C	cps	3.3×10^5	Brookfield DV-II+ Spindle T-F, 10 rpm
Min. Bond Line Thickness @ 25 N/cm ²	mm	0.02	—
Shelf Life (@ 25±5°C, 55±10% RH)	months	12	—

GC-5 Thermally Conductive Compound

TR, BLT vs Pressure



Applications



Server



Game equipment



Consumer Electronics



High-Brightness LED

Packaging & Storage

Syringe packaging: 3.5g

Shelf life: 12 months

Sealed storage in a cool and dark place.

Useful life:

According to laboratory aging data, GC-5 can be used for more than 2 years without replacement under normal conditions.

* This product is temperature resistant, no spontaneous combustion, can be stored at general room temperature.

* The above data is tested by Gelid Solutions Ltd, The laboratory reserves the right of final interpretation