# Specification Date 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 ° C-cm² /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 | °C*cm²/W | ≤ 0.053 | ASTM D5470 |
| Volatile Content (125°C, 48 hrs) | % | ≤ 0.02 | ASTM E595 |
| Density | g/cm³ | 2.8 | ASTM D792 |
| Volume Resistivity | Ω·cm | $2.0 \times 10^9$ | ASTM D257 |
| Operating Temperature Range | °C | -40 ~ 150 | — |
| Viscosity @ 23°C | cps | $3.3 \times 10^5$ | Brookfield DV-II+ Spindle T-F, 10 rpm |
| Min. Bond Line Thickness @ 25 N/cm² | mm | 0.02 | — |
| Shelf Life (@ 25±5°C, 55±10% RH) | months | 12 | — |



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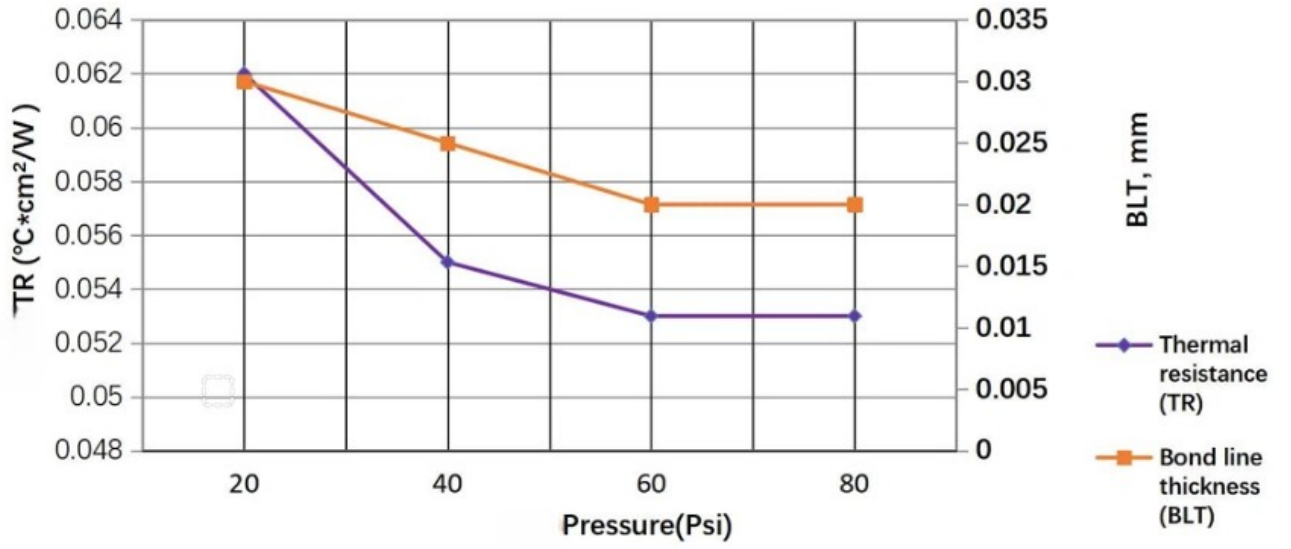
## ➢ TR、BLT vs Pressure




## ➢ 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



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