

GENNEL G109

GENNEL G109 10g Thermal Conductive Silicone Adhesive User Manual

Model: G109 | Brand: GENNEL

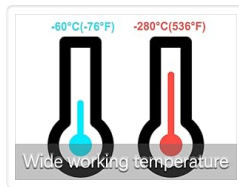
1. INTRODUCTION

The GENNEL G109 is a high-performance 10-gram thermal conductive silicone adhesive designed for effective heat transfer and bonding of electronic components. This product is formulated to be non-electrical conductive, non-corrosive, and non-toxic, making it suitable for a wide range of applications where heat dissipation is critical.

It provides strong adhesion and maintains stable performance across a broad temperature spectrum, ensuring reliable thermal management for your devices.

2. SAFETY INFORMATION

- **Non-Electrical Conductive:** This adhesive does not conduct electricity, reducing the risk of short circuits in electronic applications.
- **Non-Corrosive:** It will not corrode sensitive electronic components.
- **Non-Toxic:** Formulated to be safe for general use. However, avoid ingestion and direct contact with eyes. In case of contact, rinse thoroughly with water.
- **Ventilation:** Use in a well-ventilated area.
- **Storage:** Store in a cool, dry place, away from direct sunlight and out of reach of children.
- **Important Note:** **Do not use this thermal glue between a CPU and its heatsink.** For CPU applications, traditional thermal paste is typically recommended due to specific interface pressure requirements and thermal transfer characteristics.



Icon indicating the non-electrical conductive property of the thermal glue.

3. PRODUCT OVERVIEW

The GENNEL G109 thermal glue is supplied in a convenient 10-gram tube, designed for precise application. Its silicone-based formula ensures excellent thermal conductivity and strong, lasting adhesion.



Image of the GENNEL G109 thermal glue tube, showing the product packaging.

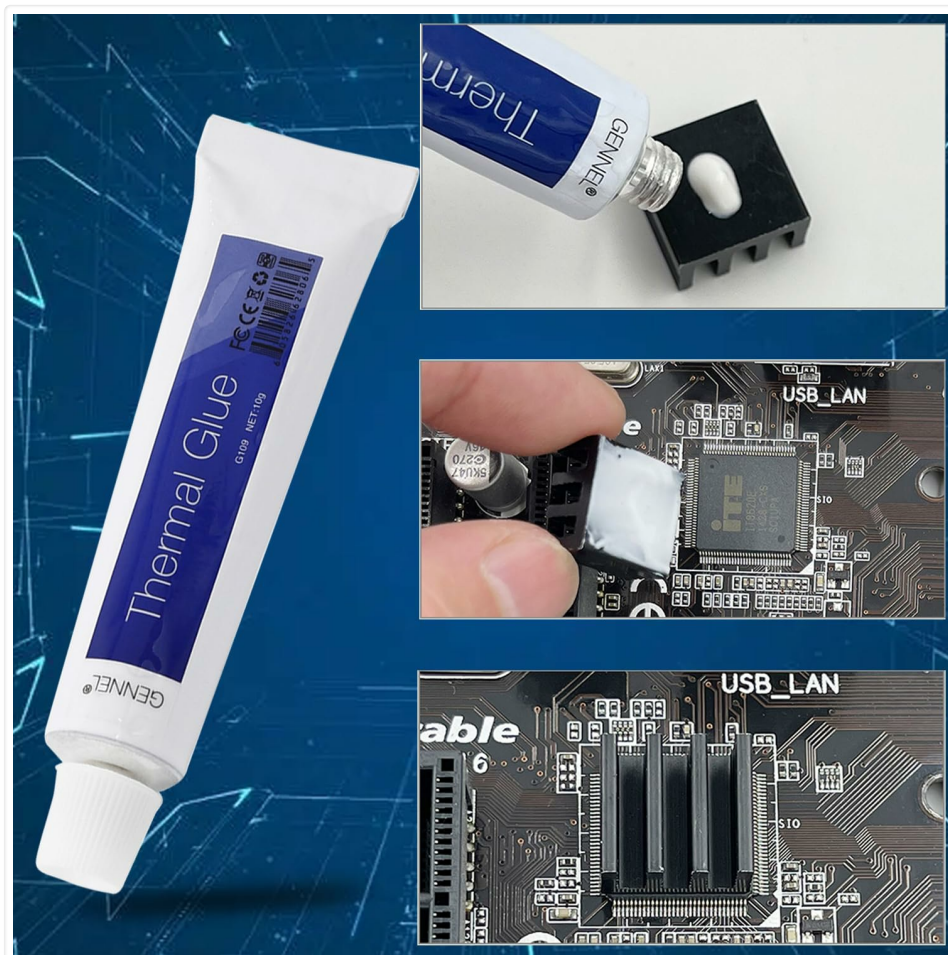


Close-up view of the GENNEL G109 thermal glue tube nozzle, ready for application.

4. SETUP AND APPLICATION

Follow these steps for optimal application of GENNEL G109 thermal glue:

1. **Prepare Surfaces:** Ensure that the surfaces to be bonded (e.g., heatsink and component) are clean, dry, and free from dust, oil, or old thermal compounds. Use isopropyl alcohol for cleaning if necessary.
2. **Apply Adhesive:** Dispense a small amount of GENNEL G109 directly onto one of the surfaces. For best results, apply a thin, even layer.
3. **Spread Evenly (Optional):** If needed, use a non-abrasive tool (like a plastic spreader) to gently spread the glue into a uniform layer. Avoid excessive thickness, as a thinner layer generally improves thermal transfer.
4. **Attach Components:** Carefully press the heatsink or component onto the adhesive-coated surface. Apply gentle, consistent pressure to ensure good contact and adhesion.
5. **Curing:** The surface drying time is typically 5-15 minutes. Allow 24 hours for full cure to achieve maximum adhesion and thermal conductivity. Avoid disturbing the components during the curing process.



Visual guide demonstrating the application of GENNEL G109 thermal glue to a heatsink and a chipset, showing the dispensing, spreading, and attachment process.

5. OPERATING INSTRUCTIONS AND APPLICATIONS

GENNEL G109 thermal glue is suitable for bonding heatsinks to various electronic components that require

efficient heat dissipation. Its strong adhesion eliminates the need for mechanical clips in many cases.

Typical Applications:

- **LEDs:** Attaching heatsinks to high-power LEDs.
- **GPUs:** Securing heatsinks to Graphics Processing Units.
- **MOSFETs:** Bonding heatsinks to power transistors.
- **Chipsets:** For North-south bridge, video card chipsets, and other ICs.
- **3D Printers:** Heat dissipation for various components.
- **Electrical Appliances & Instruments:** General heat management where a strong, thermally conductive bond is needed.



Diagram illustrating various applications for GENNEL G109 thermal glue, including GPUs, LEDs, 3D printers, and other electronic components.



Icon illustrating the wide operating temperature range of the thermal glue, from -60°C to 280°C.

6. MAINTENANCE AND STORAGE

- **After Use:** Immediately recap the tube tightly after each use to prevent air exposure and premature drying.

- **Storage Conditions:** Store the tube in a cool, dry environment, ideally between 15°C and 25°C (59°F and 77°F). Avoid extreme temperatures.
- **Shelf Life:** When stored correctly, the product maintains its properties for an extended period. Check the packaging for specific expiry dates.

7. TROUBLESHOOTING

Common Issues:

- **Adhesive Drying Out Quickly:** If the glue dries out rapidly after opening, ensure the cap is sealed tightly immediately after use. Exposure to air and moisture can accelerate curing. Consider storing in an airtight container if humidity is high.
- **Poor Adhesion:** Ensure surfaces are thoroughly cleaned and dry before application. Any residue (oil, dust, old thermal paste) can prevent proper bonding. Apply sufficient, but not excessive, pressure during initial attachment. Allow full 24-hour cure time for maximum bond strength.
- **Insufficient Thermal Transfer:** Verify that the adhesive layer is thin and even. Thick layers can impede heat transfer. Ensure the correct amount is applied and spread uniformly.

8. SPECIFICATIONS

Model	GENNEL G109
Net Weight	10g
Full Cure Time	24 Hours Surface drying time: 5~15min
Evaporation	0.001% (280°C / 24H)
Insulation coefficient	>5.1
Dissipation coefficient	<0.005
Thermal Conductivity	>1.5W/m·K
Operating Temperature	-60°C ~ 280°C
Adhesion and tensile strength	2.1(MPa)
Non-electrical conductive	

Detailed specifications of the GENNEL G109 thermal glue, including model, net weight, cure time, thermal conductivity, and operating temperature.

GENNEL G109 Thermal Conductive Glue Specifications

Feature	Value
Model	GENNEL G109
Net Weight	10 grams
Full Cure Time	24 Hours (Surface drying: 5-15 minutes)
Evaporation	0.001% (280°C / 24H)
Insulation Coefficient	> 5.1
Dissipation Coefficient	< 0.005
Thermal Conductivity	> 1.5 W/m-K
Operating Temperature Range	-60°C to 280°C (-76°F to 536°F)
Adhesion and Tensile Strength	2.1 MPa
Electrical Conductivity	Non-electrical conductive
Material	Silicone
Product Dimensions	3.54 x 2.76 x 0.63 inches

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the product packaging or contact GENNEL customer support directly. GENNEL is committed to providing high-quality products and support.

If you encounter any issues or have questions regarding the GENNEL G109 thermal glue, please visit the official GENNEL website or contact their customer service department for assistance. Contact details are typically available on the product packaging or through the retailer where the product was purchased.

You can also visit the [GENNEL Store on Amazon](#) for more information and product offerings.

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This manual is for informational purposes only. GENNEL reserves the right to make changes to product specifications without prior notice.