



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## ENVIRONMENTALLY FRIENDLY THERMALLY CONDUCTIVE GREASE

Tgrease™ 980 is a silicone-based thermal grease for use in high performance CPUs and GPUs. Tgrease 980 has a high thermal conductivity of 3.8 W/mK and superior wetting characteristics, resulting in a very low thermal resistance and excellent long term reliability.

**Storage:** Store from 20°C to 35°C with a maximum humidity of 50%. Do not store in freezer or refrigerator below 20°C.

### BENEFITS

- Low thermal resistance
- Excellent long term stability
- RoHS compliant
- Resists pump out through novel gel technology
- Easy application with low solvent formulation
- Available in 1kg (quart container)

### APPLICATIONS

- CPUs (Notebooks, Desktops, Servers)
- Custom ASICS Chips
- GPUs (Graphics Chips)
- Northbridge Chipsets
- Integrated Gate Bipolar Transistors (IGBT)

TYPICAL PROPERTIES		TEST METHOD
Color	Gray	Visual
Density	2.73g/cc	Helium pycnometer
Viscosity at 23°C (cps)	85,000 (with solvent)	Brookfield heliopath Spindle T-E at 10 RPMs
Volatile content	0.15% (without solvent)	ASTM E595
Volatile content with solvent	0.85% (with solvent)	ASTM E595 + solvent content
Thermal conductivity	3.8 W/mK	Hot disk thermal constants analyzer
Thermal resistance @ 50psi @ 344.7 KPa	0.010°C-in <sup>2</sup> /W 0.064°C-cm <sup>2</sup> /W	ASTM D5470 (modified)
Operating temperature range	-40 -150°C (40 -302°F)	

**Application:** Mix can thoroughly prior to use. Screen mesh of 61 or less is recommended for easiest application, however the grease has been successfully applied using up to a 140 mesh screen. (The higher the number = smaller screen opening)

Solvent evaporates within two hours at 60°C or 8 hours at room temperature. After solvent evaporation, the Tgrease 980 will remain soft and pliable. The solvent in the formulation adjusts viscosity for easier application and mixing with no effect on final performance.

**Samples sent in twenty-four hours.**

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Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

THR-DS-Tgrease-980 0810

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