



## 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.**

global solutions: local support™

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

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.