Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

# Tgrease™ 980 Thermal Grease


## 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 heliapath 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-in²/W 0.064°C-cm²/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