# **THERM-A-GREASE 70**

### 7.0 W/m-K High Reliability, Thin Bondline Thermal Grease

Parker Chomerics THERM-A-GREASE 70 is a high-performance, thin bondline thermal grease engineered for the efficient dissipation of heat in electronic components. Comprising silicone-based materials, it ensures high reliability in demanding applications.

Key specifications of GREASE 70 include:

• Thermal impedance: 0.010 °C-in2/W at 40 psi and 0.007 °C-in2/W at 100 psi at minimum bond line.

The minimum bond line of 0.001" (0.025 mm) makes GREASE 70 ideal for applications with stringent manufacturing and assembly tolerances. It operates effectively under low pressure, making it suitable for heat transfer in delicate or densely packed PCB components.

THERM-A-GREASE 70 is rigorously tested for high reliability. It withstands thermal cycling, long-term heat aging, and high humidity conditions, ensuring stability without pumping out or hardening/cracking over time in extreme environments.

Engineered for user convenience, GREASE 70 is easily applied via stenciling, screen printing, or dispensing, and allows straightforward rework for repairs. It requires no mixing, curing, or refrigeration, simplifying both application and storage processes.

This advanced thermal grease is designed to meet the precise needs of engineers seeking dependable thermal management solutions in high-performance electronics.

#### **Product Features**

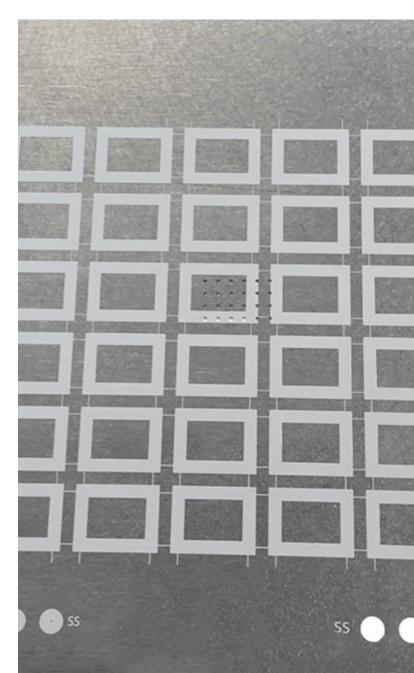
- Thin bondline: 0.001" (0.025mm)
- Require low compression force
- Can be stenciled, screen-printed, or dispensed
- High reliability
- Very low thermal impedance

#### **Typical Applications**

- CPUs and GPUs
- Memory modules
- Power supplies
- Power conversion equipment
- Lighting applications
- Automotive control modules and electronics







## **THERM-A-GREASE 70 PRODUCT INFORMATION**

Typical Properties <sup>†</sup>	GREASE 70	Test Methods
Color	White	Visual
Specific Gravity	2.9	ASTM D792
Specific Gravity Viscosity, cps	150,000	
Typical Minimum Bond Line Thickness, in (mm)	0.0010 (0.025)	Chomerics
Thermal Impedance, °C-in²/W (°C-cm²/W) @ 40 psi, @ 0.001 in (0.025 mm) thick	0.010 (0.065)	ASTM D5470
Thermal Impedance, °C-in²/W (°C-cm²/W) @ 100 psi, @ 0.001 in (0.025 mm) thick	0.007 (0.045)	ASTM D5470
Thermal Impedance, *C-in²/W (*C-cm²/W) @ 100 psi, @ 0.001 in (0.025 mm) thick Heat Capacity, J/g-K	1	ASTM E1269
Operating Temperature Range, "F ("C)	-58 to 392 (-50 to 200)	Chomerics
Dielectric Constant @ 1,000 kHz Dissipation Factor @ 1,000 kHz	7.0	ASTM D150
Dissipation Factor @ 1,000 kHz	0.002	Chomerics
Flammability Rating	V-0 (Tested by Chomerics)	UL 94
RoHS Compliant	Yes	Chomerics Certification
Outgassing, % TML (% CVCM)	0.11 (0.03)	ASTM E595
RoHS Compliant Outgassing, % TML (% CVCM) Shelf Life, months from date of manufacture	12	Chomerics
Storage Conditions, *F (*C) @ 50% Relative Humidity	50 to 90 (10 to 32)	Chomerics

 $^{\scriptscriptstyle \dagger}$  Typical properties: these are not to be construed as specifications.

\* Not recommended for dielectric applications.

\*\* Material may settle during storage, remixing may be required.

## **THERM-A-GREASE 70 ORDERING INFORMATION**

Part Number	Typical Standard Fill Volume (cc)	Typical Standard Fill Mass (g)	Packaging Description
65-00-GREASE70-0010	10	29	10cc Luer-Lock™ manual syringe
65-02-GREASE70-0030	27	78.3	30cc EFD plastic cartridge
65-00-GREASE70-0160	160	464	160 cc in 8 ounce container
65-02-GREASE70-0180	180	435	6oz (180cc) EFD plastic cartridge
65-00-GREASE70-0300	300	870	12oz (300cc) aluminum cartridge









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CHODS1127 November 2024

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