

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.

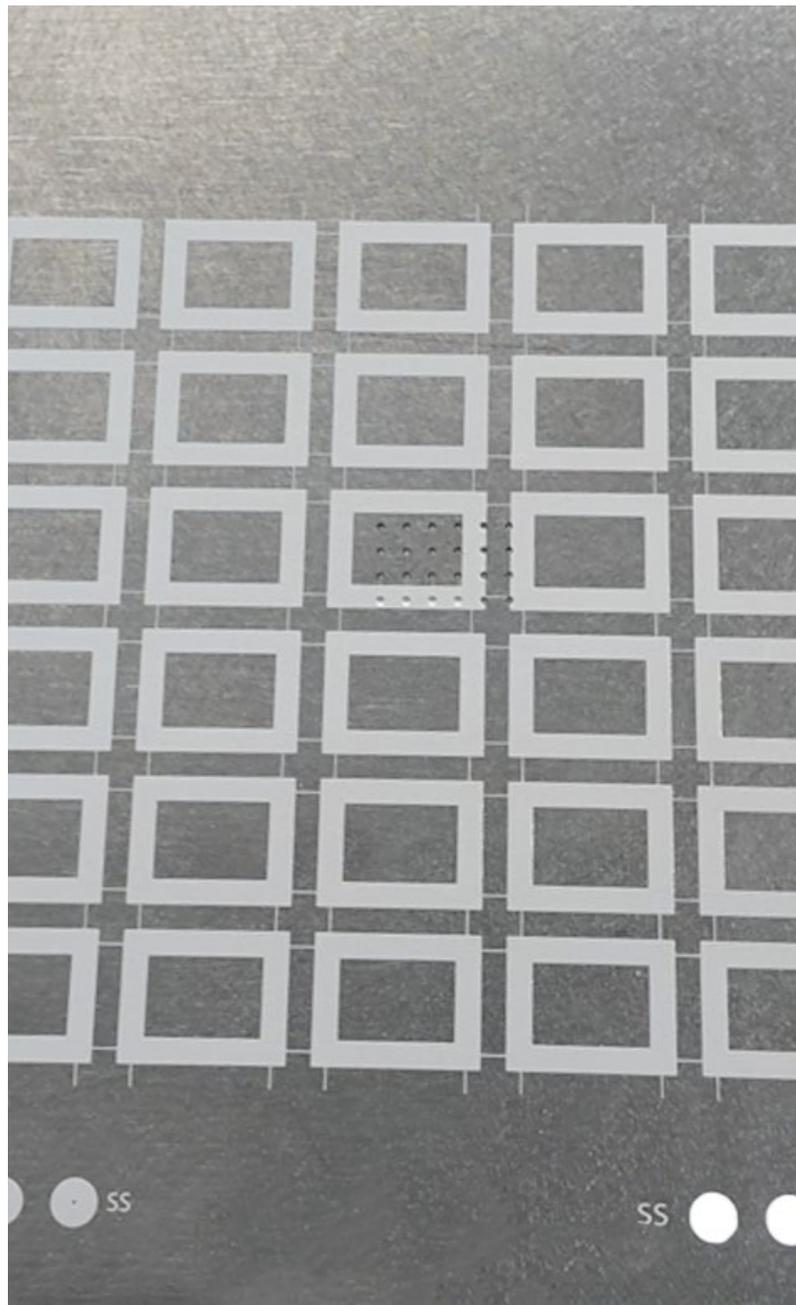
This advanced thermal grease is designed to meet the precise needs of engineers seeking dependable thermal management solutions in high-performance electronics.

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 [†]		GREASE 70	Test Methods
Physical	Color	White	Visual
	Specific Gravity	2.9	ASTM D792
	Viscosity, cps	150,000	--
	Typical Minimum Bond Line Thickness, in (mm)	0.0010 (0.025)	Chomerics
Thermal	Thermal Impedance, °C-in ² /W (°C-cm ² /W) @ 40 psi, @ 0.001 in (0.025 mm) thick	0.010 (0.065)	ASTM D5470
	Thermal Impedance, °C-in ² /W (°C-cm ² /W) @ 100 psi, @ 0.001 in (0.025 mm) thick	0.007 (0.045)	ASTM D5470
	Heat Capacity, J/g-K	1	ASTM E1269
	Operating Temperature Range, °F (°C)	-58 to 392 (-50 to 200)	Chomerics
Electrical	Dielectric Constant @ 1,000 kHz	7.0	ASTM D150
	Dissipation Factor @ 1,000 kHz	0.002	Chomerics
Regulatory	Flammability Rating	V-0 (Tested by Chomerics)	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.11 (0.03)	ASTM E595
	Shelf Life, months from date of manufacture	12	Chomerics
	Storage Conditions, °F (°C) @ 50% Relative Humidity	50 to 90 (10 to 32)	Chomerics

[†] 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
65-00-GREASE70-0080	80	232	80 cc in 8 ounce container
65-02-GREASE70-0180	150	435	6oz (180cc) EFD plastic cartridge
65-00-GREASE70-0160	160	464	160 cc in 8 ounce container
65-00-GREASE70-0300	300	870	12oz (300cc) aluminum cartridge
65-00-GREASE70-3790	3,790	10,991	1 gallon pail



Parker Hannifin Corporation

Chomerics Division

77 Dragon Court

Woburn, MA 01801

Phone 781 935 4850

Fax 781 933 4318

chomailbox@parker.com

parker.com/chomerics

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