

THERM-A-GAP™ GEL 60HF

High Performance High Flow Rate Fully Cured Dispensable GEL

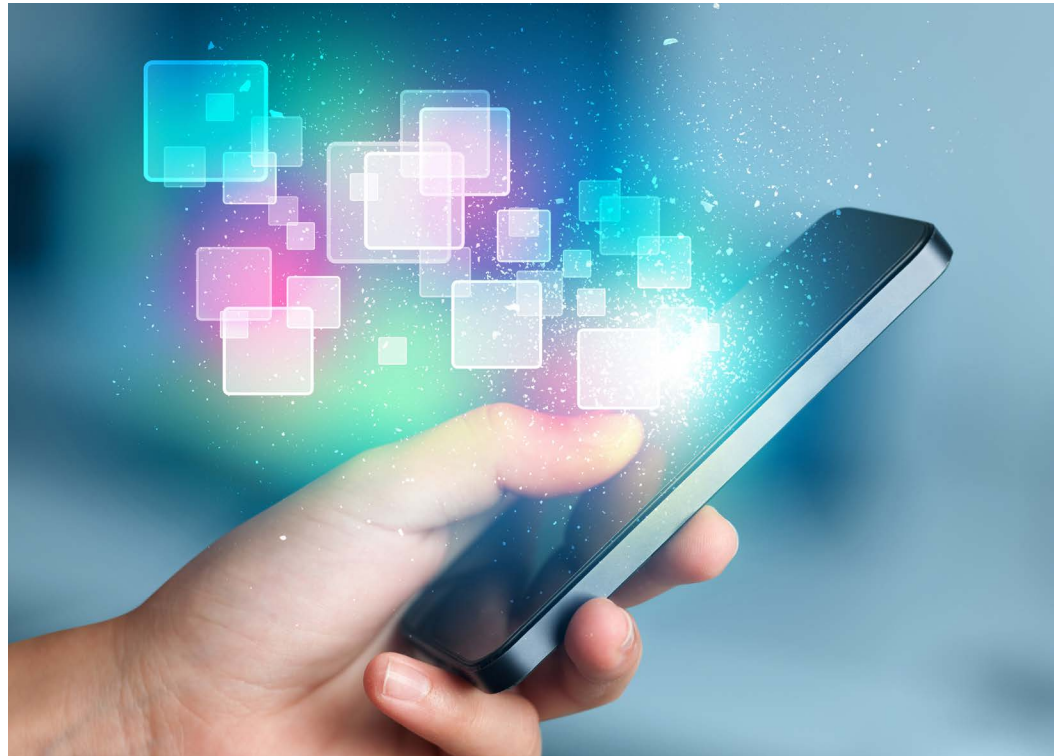


Customer Value Proposition

THERM-A-GAP GEL 60HF is part of the Parker Chomerics family of fully cured, one component, silicone-based, dispensable thermal interface materials. With a 6.2 W/m-K thermal conductivity, it is designed for high performance heat transfer from electronics components to cooling features and meant to be used across industries and applications.

The "HF" in GEL 60HF stands for "High Flow", indicating that the material is ideal for high volume dispensing applications and high throughput production operations. As with all Parker Chomerics thermal gels, it is optimized for automated dispensing at various packaging sizes while retaining properties for easy rework and field repair situations.

The paste-like consistency of THERM-A-GAP GEL 60HF enables very tightly controlled dispensing and accurate material placement during assembly. It requires low compressive force to deflect under assembly pressure, subjecting components, solder joints and PCB leads to minimal stress.



Product Features

- Thermal conductivity: 6.2 W/m-K
- High flow rate: 80g/min
- No secondary curing required
- Low thermal impedance
- Very low compression force
- Reworkable
- Single component
- Room temperature storage

Typical Applications

- Consumer electronics
- Telecommunications equipment
- Energy storage devices
- Power electronics and modules
- Automotive control units and sensors
- Computing components (CPUs, GPUs, memory)

THERM-A-GAP™ GEL 60HF Product Information

Typical Properties†		GEL 60HF	Test Methods
Physical	Color	Grey/Black	Visual
	Flow Rate, g/min - 30cc syringe with no tip, 0.100" orifice, 90psi (621 kPa)	80	Chomerics
	Specific Gravity	3.3	ASTM D792
	Typical Minimum Bondline Thickness, in (mm)	0.006 (0.15)	Chomerics
Thermal	Thermal Conductivity, W/m-K	6.2	ASTM D5470
	Heat Capacity, J/g-K	1	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	150	ASTM E831
	Operating Temperature Range, °F (°C)	-67 to 392 °F (-55 to 200 °C)	Chomerics
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	125 (5.0)	ASTM D149
	Volume Resistivity, ohm-cm	10 ¹³	ASTM D257
	Dielectric Constant @ 1000 kHz at 0.020" (0.50mm) thick	5.8 / 4.8	ASTM D150
	Dissipation Factor @ 1000 kHz at 0.020" (0.50mm) thick	0.001/0.002	Chomerics
Regulatory	Flammability Rating (See UL File E482354 for Details)	V-0	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.14 (0.07)	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.

THERM-A-GAP™ GEL 60HF Ordering Information

Part Number	Typical Standard Fill Volume (cc)	Typical Standard Fill Mass (g)	Packaging Description	Color
65-00-GEL60HF-0010	10	33	10cc Luer-Lock™ Manual Syringe	Grey
65-02-GEL60HF-0030	27	89	30cc EFD plastic cartridge	Grey
65-02-GEL60HF-0180	150	495	6oz (180cc) EFD plastic cartridge	Grey
65-00-GEL60HF-0300	300	990	12oz (300cc) Aluminum Cartridge	Grey
65-1P-GEL60HF-2500	2500	8250	1 U.S. gal. pail	Grey
65-5P-GEL60HF-7500	7500	24750	5 U.S. gal. pail	Grey
65-00-GEL60HF-0010-B	10	33	10cc Luer-Lock™ Manual Syringe	Black
65-02-GEL60HF-0030-B	27	89	30cc EFD plastic cartridge	Black
65-02-GEL60HF-0180-B	150	495	6oz (180cc) EFD plastic cartridge	Black
65-00-GEL60HF-0300-B	300	990	12oz (300cc) Aluminum Cartridge	Black
65-1P-GEL60HF-2500-B	2500	8250	1 U.S. gal. pail	Black
65-5P-GEL60HF-7500-B	7500	24750	5 U.S. gal. pail	Black