THERM-A-GAP® GEL 120

12.0 W/m-K High Performance Fully Cured Dispensable Thermal Gap Filler Gel

Parker Chomerics THERM-A-GAP GEL 120 is a reworkable, high performance, one component, silicone, dispensable, thermal interface material with a thermal conductivity of 12.0 W/m-K. GEL 120 was developed to reduce thermal junction temperatures and to effectively conduct heat away from heat generating electronics components. As a gap filler it can be used in gaps of various thicknesses created by assembly or manufacturing tolerances, from less than 0.020in (0.5mm) to 0.160in (4mm).

THERM-A-GAP GEL 120 requires very low compressive force to conform under assembly pressure, thereby subjecting components, solder joints, and leads to minimal stresses. This material is a fully cured one component material that does not require any secondary curing or additional processes to achieve the listed physical or thermal properties.

As with all Parker Chomerics thermal gels, GEL 120 is formulated to accommodate today's high-performance needs and high reliability electronics while being ideal for robotic dispensing machines and automated assembly processes. The consistency of GEL 120 enables very tightly controlled dispensing and accurate material placement during assembly, leading to high repeatability and greater throughput.

Product Features

- Very high thermal performance (12.0 W/m-K)
- Easily dispensed
- No secondary curing required
- Very low compression force
- Reworkable
- Single component

Typical Applications

- Telecommunications equipment
- Consumer devices
- Mission critical electronics
- Automotive control units and sensors
- Energy storage devices

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THERM-A-GAP GEL 120 PRODUCT INFORMATION

	Typical Properties†	GEL 120	Test Methods
Physical	Color	Gray	Visual
	Flow Rate, g/min - 30 cc syringe with no tip, 0.100" orifice, 90 psi (621 kPa)	25	Chomerics
	Specific Gravity	3.2	ASTM D792
	Typical Minimum Bond Line Thickness, in (mm)	0.010 (0.25)	Chomerics
Thermal	Thermal Conductivity (Bulk), W/m-K	12.0	ASTM D5470
	Heat Capacity, J/g-K	1	ASTM E1269
	Operating Temperature Range, °F (°C)	-67 to 392 (-55 to 200)	Chomerics
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	125 (5)	ASTM D149
	Volume Resistivity, ohm-cm	10^{13}	ASTM D257
	Dielectric Constant @ 1,000 kHz at 0.050" (1.3mm) thick	9.1	ASTM D150
	Dissipation Factor @ 1,000 kHz at 0.050" (1.3mm) thick	0.003	Chomerics
Regulatory	Flammability Rating	V-0 (Tested by Chomerics)	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.56 (0.03)	ASTM E595
	Shelf Life, months from date of shipment	6 @ 22°C (72°F) 9 @ <10°C (50°F)	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 120 ORDERING INFORMATION

Part Number	Typical Standard Fill Volume (cc)	Typical Standard Fill Mass (g)	Packaging Description
65-00-GEL120-0010	10	32	10cc Luer-Lock™ manual syringe
65-02-GEL120-0030	27	86	30cc EFD plastic cartridge
65-02-GEL120-0180	150	480	6oz (180cc) EFD plastic cartridge
65-00-GEL120-0300	300	960	12oz (300cc) aluminum cartridge
65-1P-GEL120-2500	2500	8,000	1 U.S. gal. pail

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