

# THERM-A-GAP™ GEL 75

High Performance Fully Cured Dispensable GEL



## Customer Value Proposition:

Parker Chomerics THERM-A-GAP GEL 75 is a high performance, one component, dispensable thermal interface material with 7.5 W/m-K thermal conductivity developed to conduct heat from electronics to a heat sink or enclosure.

The material's heavy paste-like consistency enables controlled dispensing, applied in variable thicknesses to suit application needs. THERM-A-GAP GEL 75 requires low compressive force to deform under assembly pressure subjecting components, solder joints and leads to minimal stresses.

It is formulated to accommodate today's high performance electronics and is ideal for automated dispensing machines, rework and field repair situations.



## Contact Information:

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## Features and Benefits: Typical Applications:

- Thermal conductivity: 7.5 W/m-K
- Easily dispensed
- No secondary curing required
- Low thermal impedance
- Ultra-low compression force
- Reworkable
- Telecom base stations
- Power supplies and semiconductors
- Memory and power modules
- Microprocessors
- Central processing units (CPUs)

## Packaging and Handling:

Material may be packaged in syringes, cartridges or bulk packaged in pails.



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# Product Information

## THERM-A-GAP GEL 75

Typical Properties*		GEL 75	Test Methods
Physical	Color	White	Visual
	Flow Rate, g/min - 30cc syringe with no tip, 0.100" orifice, 90psi (621 kPa)	30	Chomerics
	Specific Gravity	3.3	ASTM D792
	Typical minimum bondline thickness, in (mm)	0.008 (0.20)	Chomerics
Thermal	Thermal Conductivity, W/m-K	7.5	ASTM D5470
	Heat Capacity, J/g-K	1.0	ASTM E1269 (25°C ± 2°C - DSC)
	Coefficient of Thermal Expansion, ppm/K	150	ASTM E831
	Operating Temperature Range °F (°C)	-40 to 392 (-40 to 200)	Chomerics
Electrical	Dielectric Strength, Vac / mil (kVac/mm)	220 (8.7)	Chomerics
	Volume Resistivity, ohm-cm	10 <sup>14</sup>	ASTM D257
	Dielectric Constant @ 100 kHz	7.2	ASTM D150
	Dissipation Factor @ 100 kHz	0.023	Chomerics
Regulatory	Flammability Rating	V-0	Chomerics
	RoHS Compliant	Yes	Chomerics
	Outgassing, % TML (% CVCM)	TBD	TBD
	Shelf Life, months from date of manufacture	9	Chomerics

\* Typical properties: these are not to be construed as specifications.

Part Number	Standard Fill Volume (cc)	Standard Fill Mass (grams)	Description
65-02-GEL75-0010	10	33	EFD plastic syringe
65-02-GEL75-0030	27	89.1	EFD plastic syringe
65-02-GEL75-0180	150	495	EFD plastic cartridge
65-00-GEL75-0300	300	990	Aluminum cartridge
65-1P-GEL75-2500	2500	8250	1 US gal. pail
65-5P-GEL75-7500	7500	24750	5 US gal. pail

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