

# THERM-A-GAP™ GEL 37

High Performance Fully Cured Dispensable GEL



## Customer Value Proposition:

Parker Chomerics THERM-A-GAP GEL 37 is a high performance, one component, dispensable thermal interface material with 3.7 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 37 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.



## Features and Benefits: Typical Applications:

- Thermal conductivity: 3.7 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.



# Product Information

## THERM-A-GAP GEL 37

Typical Properties*		GEL 37	Test Methods
Physical	Colour	Blue	Visual
	Flow Rate, g/min - 30cc syringe with no tip, 0.100" orifice, 90psi (621 kPa)	30	Chomerics
	Specific Gravity	3.1	ASTM D792
	Typical minimum bondline thickness, in (mm)	0.004 (0.10)	Chomerics
Thermal	Thermal Conductivity, W/m-K	3.7	ASTM D5470
	Heat Capacity, J/g-K	1.0	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	150	ASTM E831
	Operating Temperature Range °F (°C)	-67 to 392 (-55 to 200)	Chomerics
Electrical	Dielectric Strength, Vac / mil (kVac/mm)	180 (7.0)	Chomerics
	Volume Resistivity, ohm-cm	10 <sup>14</sup>	ASTM D257
	Dielectric Constant @ 100 kHz	5.9	ASTM D150
	Dissipation Factor @ 100 kHz	0.012	Chomerics
Regulatory	Flammability Rating	V-0	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML, % CVCM	0.18, 0.07	ASTM E595
	Shelf Life, months from date of manufacture	18	Chomerics

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

Part Number	Standard Fill Volume (cc)	Standard Fill Mass (g)	Description
65-00-GEL37-0010	10	30	10cc manual dispense syringe
65-02-GEL37-0030	27	80	30cc EFD plastic cartridge
65-02-GEL37-0180	150	465	6oz EFD plastic cartridge
65-00-GEL37-0300	300	930	Aluminium caulking cartridge
65-1P-GEL37-2500	2500	7,750	1 US gal. pail
65-5P-GEL37-7500	7500	23,250	5 US gal. pail

[www.parker.com/chomerics](http://www.parker.com/chomerics)

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