THERM-A-GAP™ GEL 75VT

7.5 W/m-K High Performance, High Reliability, Fully Cured, Dispensable Thermal Gel

Parker Chomerics THERM-A-GAPTM GEL 75VT is a reworkable, one-component, silicone dispensable thermal interface gel with a 7.5 W/m-K typical thermal conductivity. GEL 75VT was developed to conduct heat away from electronics to heat sinks or enclosures and to perform reliably in vertical and / or high vibration applications. The "VT" suffix in the product name stands for Vertical Tackiness.

During development, GEL 75VT was tested to a number of rigorous long term reliability tests such as automotive vertical slump testing, high vibration testing, and telecommunications thermal material verification processes. The long-term reliability of GEL 75VT provides confidence for mission critical applications that rely on consistent thermal performance over many years of continuous operation.

THERM-A-GAP™ GEL 75VT requires no mixing or secondary curing and is designed for easy application and rework. It can be dispensed at various bond line thicknesses typically up to 0.160in (4mm) to take up gaps created by assembly or manufacturing tolerances. As with all Parker Chomerics thermal gels, GEL 75VT is formulated to accommodate today's high-performance and high-reliability electronics while being ideal for automated dispensing machines, rework, and field repair situations.

Product Features

- · Resistant to slump in vertical applications
- High vibration reliability & high tackiness
- · High thermal performance: 7.5 W/m-K conductivity
- · Very low compression force
- Reworkable
- No secondary cure required
- One-component

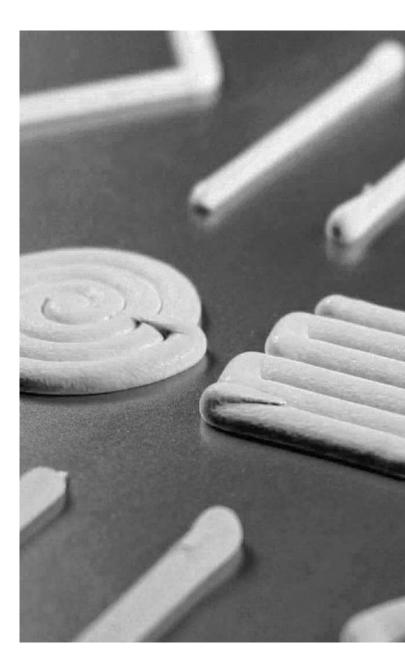
Typical Applications

- Network and IT infrastructure
- Telecommunications modules
- · Automotive sensors and devices
- Consumer electronics
- Mission critical technology
- Industrial electronics equipment
- Battery and energy storage modules









THERM-A-GAP GEL 75VT PRODUCT INFORMATION

Typical Properties [†]	GEL 75VT	Test Methods
Color	White	Visual
Flow Rate, g/min - 30 cc syringe with no tip, 0.100" orifice, 90 psi (621 kPa)	15-25	Chomerics
Flow Rate, g/min - 30 cc syringe with no tip, 0.100" orifice, 90 psi (621 kPa) Specific Gravity	3.4	ASTM D792
Typical Minimum Bond Line Thickness, in (mm)	0.008 (0.2)	Chomerics
Thermal Conductivity (Bulk), W/m-K	7.5	ASTM D5470
Heat Capacity, J/g-K Operating Temperature Person (FCC)	1	ASTM E1269
Operating Temperature Range, °F (°C)	-67 to 392 (-55 to 200)	Chomerics
Dielectric Strength, Vac/mil (kVac/mm)	220 (8.7)	ASTM D149
Volume Resistivity, ohm-cm Dielectric Constant @ 1,000 kHz at 0.050" (1.27 mm) thick	1014	ASTM D257
Dielectric Constant @ 1,000 kHz at 0.050" (1.27 mm) thick	9.5	ASTM D150
Dissipation Factor @ 1,000 kHz at 0.050" (1.27 mm) thick	0.004	Chomerics
Flammability Rating	V-0 (Tested by Chomerics)	UL 94
RoHS Compliant	Yes	Chomerics Certification
RoHS Compliant Outgassing, % TML (% CVCM) Shelf Life, months from date of manufacture	0.46 (0.18)	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 75VT ORDERING INFORMATION

Part Number	Typical Standard Fill Volume (cc)	Typical Standard Fill Mass (g)	Packaging Description
65-00-GEL75VT-0010	10	34	10cc Luer-Lock™ manual syringe
65-02-GEL75VT-0030	27	92	30cc EFD plastic cartridge
65-02-GEL75VT-0180	150	510	6oz (180cc) EFD plastic cartridge
65-00-GEL75VT-0300	300	1,020	12oz (300cc) aluminum cartridge
65-1P-GEL75VT-2500	2,500	8,500	1 U.S. gal. pail
65-5P-GEL75VT-7800	7,800	26,520	5 U.S. gal. pail











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