

# THERM-A-GAP™ T652

Thermally Conductive, Fully Cured, Dispensable Gap Filler



## Customer Value Proposition:

THERM-A-GAP™ T652 material is a highly conformable, pre-cured, single-component compound. This unique material results in much lower mechanical stress on delicate components than even the softest gap-filling sheets. It is ideal for filling variable gaps between multiple components and a common heat sink. T652 product is available with 0.25mm/0.010" diameter glass beads to create compression stops for applications requiring electrical isolation.



## Contact Information:

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## Product Features:

- Dispensable
- Fully cured
- High & low volume package sizes for use with manual or automated meter-mix
- No settling in storage
- Highly conformable at low pressures
- Ideal for gap sizes 0.2mm to 4mm
- Available with 0.010" glass bead

## Typical Applications:

- Engine control units (ECU's)
- Transmission & control devices
- Electrical drives
- Steering & braking systems
- Memory modules
- LEDs
- Power conversion equipment
- Power supplies and UPS
- Power semiconductors

# Product Information

Table 1 - Typical Properties

Typical Properties		T652	Test Method
Physical	Color	White	Visual
	Flow rate, cc/min - 30cc taper tip, 0.130" orifice, 90 psi (621kPa)	0.127 - 2.54	Chomerics Test
	Specific Gravity	2.80	ASTM D792
	Percent Deflection @ Various Pressures, %		ASTM C165 MOD
	@ 7 kPa (1 psi)	26	
@ 20 kPa (3 psi)	72		
@ 34 kPa (5 psi)	85		
	@ 69 kPa (10 psi)	>90	
Thermal	Thermal Conductivity, W/m-K	3	--
	Heat Capacity, J/g-K	1.0	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	150	ASTM E831
	Continuous Use Temperature, °C	-50 to 150	--
Electrical	Dielectric Strength, KVac/mm (Vac / mil)	101	ASTM D149
	Volume Resistivity, ohm-cm	==	ASTM D257
	Dielectric Constant @1,000 kHz	5.0	ASTM D150
	Dissipation Factor @ 1,000 kHz	0.010	Chomerics Test
Regulatory	Flammability Rating (See UL File E140244 for Details)	Not Tested	UL 94
	RoHS Compliant	Yes	Chomerics Self-Certification
	Outgassing, % TML	0.2	ASTM D6375
	Shelf Life, months from date of manufacture	18	Chomerics

## Preparation & Operating Parameters

- All surface should be cleaned or degreased with mineral spirits or IPA.
- No additional mixing of the material is required prior to use.
- Materials are recommended for use within Chomerics standard operating ranges.
- Behaviour & performance of the material in particular applications can become more complex & may require additional consideration & testing.

## Handling information

These products are defined by Chomerics as "articles" according to the following generally recognized regulatory definition for articles:

An article is a manufactured item "formed to a specific shape or design during manufacturing," which has "end use functions" dependent upon its size and shape during end use and which has generally "no change of chemical composition during its end use."

In addition:

- There is no known or anticipated exposure to hazardous materials/substances during routine and anticipated use of the product.
- The product's shape, surface, and design is more relevant than its chemical composition.

These materials are not deemed by Chomerics to require an MSDS. For further questions, please contact Chomerics at 781-935-4850.

## Part Numbering Information

65-00-T652 - 0010	10 CC SAMPLE
65-00-T652 - 0030	30 CC CARTRIDGE
65-00-T652 - 0180	180 CC CARTRIDGE
65-00-T652 - 0300	300 CC CARTRIDGE
69-11-27473-T652	25 KG KIT
69-11-25177-T652	1 GAL PAIL (5 KG )