

Product Data

Thermally Conductive Gap Filler Gel TIS420C

TIS420C is a one component thermally conductive Gap Filler. TIS420C is dispensed as a thixotropic paste, and cures at room temperature to become a mechanically stable silicone gel. Due to its curing performance, TIS420C provides improved stability in 3-dimensional and vertical TIM applications that require a stress-absorbing, pump-out resistant, mechanically stable, and repairable heat path.

KEY FEATURES

- ◆ High thermal conductivity
- ◆ Physical stability due to polymerization during cure process
- ◆ Soft, stress-absorbing post cure properties
- ◆ Can be dispensed in various thickness
- ◆ Conforms to intricate shapes and component designs
- ◆ Use within a broad operating temperature range
- ◆ Repairable

APPLICATIONS

- ◆ Thermal interface for electronic components in consumer and automotive applications

TYPICAL PROPERTY DATA

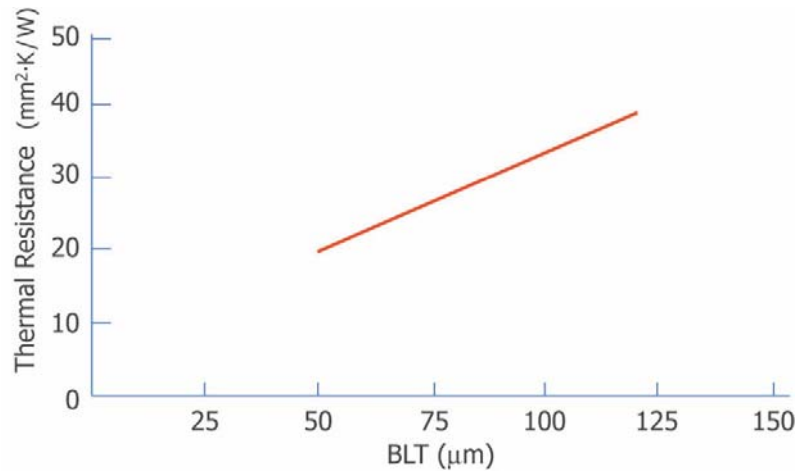
(JIS K 6249)

UNCURED PROPERTIES (23°C,50%RH)		TIS420C
Appearance		Paste, Gray
Viscosity	Pa·s	300
Tack-free time	min	5
CURED PROPERTIES (2 days @ 23°C, 50%RH)		
Appearance		Gel, Gray
Density (23°C)	g/cm ³	3.20
Thermal conductivity *1	W/(m·K)	4.2
Thermal resistance *2 (BLT: 50µm)	mm ² ·K/W	20
Volume resistivity	MΩ·m	3.0×10 ³
Dielectric strength	kV/0.25mm	5.0
Low volatile siloxane (D ₄ -D ₁₀)	ppm	100

*1 : Hot wire method *2 : Laser flash method

Typical property data values should not be used as specifications.

THERMAL RESISTANCE



GENERAL INSTRUCTIONS FOR USE

- ◆ Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene methyl ethyl ketone (MEK) etc.
- ◆ Wear eye protection and protective gloves as required while handling.
- ◆ Adequate ventilation must be maintained in the work place at all times.
- ◆ General adhesive for metals, glass, plastics, etc.

STORAGE

- ◆ Store in a cool, dry place out of direct sunlight.
- ◆ Keep out of the reach of children.

PACKAGING

- ◆ 333ml cartridge in case of 10

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