

Parker Chomerics THERM-A-FORM T647 Cure-in-Place Potting and Underfill Material

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: THERM-A-FORM™ thermally conductive silicone elastomer products are dispensable form-in-place compounds designed for heat transfer without excessive compressive force in electronics cooling applications. These versatile liquid reactive materials can be dispensed and cured into complex geometries for cooling of multi-height components on a PCB without the expense of a molded sheet. Each compound is available in ready-to-use cartridge systems, eliminating weighing, mixing, and degassing procedures. Product Attributes: Superior thermal performance while maintaining low modulus and flows into complex geometries to maintain intimate contact with component. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-THERM-A-FORM-T647-Cure-in-Place-Potting-and-Underfill-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.08 g/cc	2.08 g/cc	ASTM D792
Viscosity	>= 5.0 cP	>= 5.0 cP	ASTM D2196

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ASTM E831
Specific Heat Capacity	0.900 J/g-°C	0.215 BTU/lb-°F	ASTM E1269
Thermal Conductivity	3.00 W/m-K	20.8 BTU-in/hr-ft²-°F	ASTM D5470
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Brittleness Temperature	-55.0 °C	-67.0 °F	ASTM D2137

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	8.0 @Frequency 1.00e+6 Hz	8.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	10.0 kV/mm	254 kV/in	ASTM D149

Electrical Properties	0.010 Metric	0.010 English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Creepance

Processing Properties	Metric	English	Comments
Cure Time	3.00 min	0.0500 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	60.0 min	1.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	2880 min	48.0 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	300 min	300 min	2X Starting Viscosity
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shelf Life	3.00 Month	3.00 Month	From date of Manufacture

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Gray	
Extractable Silicone	0.085	
Filler	Aluminum Oxide	
Mix Ratio	1:1	
Number of Components	2-part	

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