

Parker Chomerics THERM-A-FORM 1641 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: One-component moisture-cure RTV, supplied with primer 1086 (primer is not required for cure but promotes adhesion) and Non-acetic acid generating. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-THERM-A-FORM-1641-Cure-in-Place-Potting-and-Underfill-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 g/cc	2.10 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56	56	ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	150 $\mu\text{m/m-}^{\circ}\text{C}$	83.3 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM E831
Specific Heat Capacity	1.00 J/g- $^{\circ}\text{C}$	0.239 BTU/lb- $^{\circ}\text{F}$	ASTM E1269
Thermal Conductivity	0.900 W/m-K	6.25 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM D5470
Maximum Service Temperature, Air	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-70.0 $^{\circ}\text{C}$	-94.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	Chomerics

Processing Properties	Metric	English	Comments
Cure Time	2880 min	48.0 hour	50% RH
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	30.0 min	30.0 min	2X Starting Viscosity
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shelf Life	6.00 Month	6.00 Month	From date of Manufacture

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	White	
Filler	Aluminum Oxide	
Mix Ratio	100:3	
Number of Components	1-part	

Contact Songhan Plastic Technology Co.,Ltd.

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