

## Description

LISAT LST-TIG-815 is a two-part, high performance thermally conductive liquid gap filling material. It can be cured at room temperature with accelerated heat and the material can flow easily. It offers infinite thickness variation under little or no pressure on fragile components during assembly. Once cured, Gap Filler LST-TIG-815 provides a soft, thermally conductive, form-in-place elastomer that is ideal for filling unique and intricate air voids and gaps.



## Features and Benefits

- Thermal Conductivity : 1.8W/m-K
- Optimized Shear Thinning \*
- Excellent Slump Resistance
- Good Wet-out for low stress interface
- 100% Solid-no cure by-products
- Good Mechanical & Chemical Stability

\*= Maximizes Dispensing capacity and equipment reliability

## Typical Applications

- @ Automotive Electronics
- @ Computer and Peripherals
- @ Telecommunications
- @ Thermally Conductive Vibration Dampening
- @ PCBA to Housing
- @ Discrete Component to Heat Spreader

## Properties

Note : Below technical data and information should be thought as typical or representative only and should not be use for specification purpose

### TYPICAL PROPERTIES OF GAP FILLER LST-TIG-815

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD
Color / Part A	White		Visual
Color / Part B	Pink		Visual
Viscosity (mpa.s)	250*10 <sup>3</sup>		ASTM D2196
Density (g/cc)	2.8		ASTM D792
Mix Ratio	1:1		N/A

### PROPERTY AS CURED

Color	Light Yellow		Visual
Hardness (Shore 00)	55		ASTM D2240
Thermal Conductivity (W/m-K)	1.8		ASTM D5470
Dielectric Strength (KV/mm)	>6		ASTM D149
Volume Resistivity (Ω-cm)	9.6x10 <sup>12</sup>		ASTM D257
Flame Rating	V-O		UL94
Pot Life @ 25°C (Hrs)	1.0		N/A
Continuous Use Temp (°F)/(°C)	-49°F to 392°F	-45°C to 200°C	N/A

### CURED SCHEDULE

25°C (Hrs)	5.0		N/A
100°C (Min)	15.0		N/A

### THERMAL PERFORMANCE vs PRESSURE

Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in <sup>2</sup> /W)	1.14	1.01	0.92	0.84	0.82	0.78
Compression Rate (%)	3%	6%	12%	20%	26%	28%

Part-Number Ordering System : LST-TFP-150-xxx  
 050 = 50cc  
 400 = 400cc

LISAT

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