

## Description

LISAT LST-TIG-820 is a two-part, high performance thermally conductive and liquid gap filling material. It can be cured at room temperature with accelerated heat. The material provides a balance of cured material properties and good compression set (memory). Once cured, Gap Filler LST-TIG-820 provides a soft contact with good thermally conductive form-in-place elastomer that is ideal for coupling "hot" electronics components mounted on PC Board with an adjacent metal case or heat sink.



## Features and Benefits

- Thermal Conductivity : 2.5W/m-K
- Stress Absorbing Flexibility
- 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-820

PROPERTY	IMPERIAL VALUE	METRIC VALUE	REFERENT STANDARD
Color / Part A	White		Visual
Color / Part B	Pink		Visual
Viscosity (mpa.s)	200 * 10 <sup>3</sup>		ASTM D2196
Density (g/cc)	3.0		ASTM D792
Mix Ratio	1:1		N/A

### PROPERTY AS CURED

Color	Yellow		Visual
Hardness (Shore 00)	55		ASTM D2240
Thermal Conductivity (W/m-K)	2.5		ASTM D5470
Dielectric Strength (KV/mm)	> 6		ASTM D149
Volume Resistivity (Ω-cm)	9.6x10 <sup>12</sup>		ASTM D257
Flame Rating	V-0		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)	1.02	0.88	0.80	0.70	0.64	0.62
Compression Rate (%)	3%	6%	12%	20%	26%	28%

Part-Number Ordering System : LST-TFP-200-xxx  
 050 = 50cc  
 400 = 400cc

LISAT

2870 Scott Street, Suite 101 Vista, CA 92081, U.S.A.

Tel : (1)-760-5981066 / Fax : (1)-760-5982871 / Email : alan@lisat.net / Web : www.lisat.net