

## Description

LISAT LST-TIG-835 is a two-part, ultra-high performance and thermally conductive, liquid gap filling material. It can be cured at room temperature and by accelerated heat. The material is an excellent solution for interfacing fragile component with high topography or stack-up tolerances to a universal heat sink or housing. Once cured, Gap Filler LST-TIG-835 remains a low modulus elastomer that helps relieve CTE stress during thermal cycling and yet maintains enough modulus to prevent pump out from the interface.



## Features and Benefits

- Thermal Conductivity : 3.5W/m-K
- Easy to Dispense
- 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
- @ Fiber Optic Telecommunications Equipment
- @ 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-835

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)	2.8		ASTM D792			
Mix Ratio	1:1		N/A			
<b>PROPERTY AS CURED</b>						
Color	Dark Yellow		Visual			
Hardness (Shore 00)	55		ASTM D2240			
Thermal Conductivity (W/m-K)	3.5		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			
<b>CURED SCHEDULE</b>						
25°C (Hrs)	15.0		N/A			
100°C (Min)	40.0		N/A			
<b>THERMAL PERFORMANCE vs PRESSURE</b>						
Pressure (psi)	2	5	10	20	30	40
Thermal Impedance (°C-in <sup>2</sup> /W)	0.92	0.80	0.70	0.58	0.48	0.42
Compression Rate (%)	3%	6%	12%	20%	26%	28%

Part-Number Ordering System : LST-TFP-350-xxx  
 050 = 50cc  
 400 = 400cc

LISAT

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