



**Honeywell LTM6300-SP Printable  
Thermal Interface Material**

# Honeywell LTM6300-SP Printable Thermal Interface Material for LED/LCD Applications

**HIGH THERMAL CONDUCTIVITY  
PHASE CHANGE MATERIAL  
FORMULATED FOR LED/LCD**

## BENEFITS

- High Thermal Conductivity
- Ease of application
- Superior handling and reworkability
- Application: Screen/Stencil Printable
- More applications per kilogram due to lower specific gravity
- Superior reliability performance

## OVERVIEW

Honeywell LTM6300-SP thermal interface material is a new product specifically formulated for LED/LCD applications. The patented\* material was designed for application by screen or stencil printing. It has a tailored filler size that provides exceptional performance. LTM6300-SP thermal interface material changes phase at 45°C to ensure maximum surface conformance and hence minimal contact resistance. Use of LTM6300 material provides longer life, brighter lights and more stable color in LED/LCD devices.



LTM6300-SP can be packaged in jars or cans.

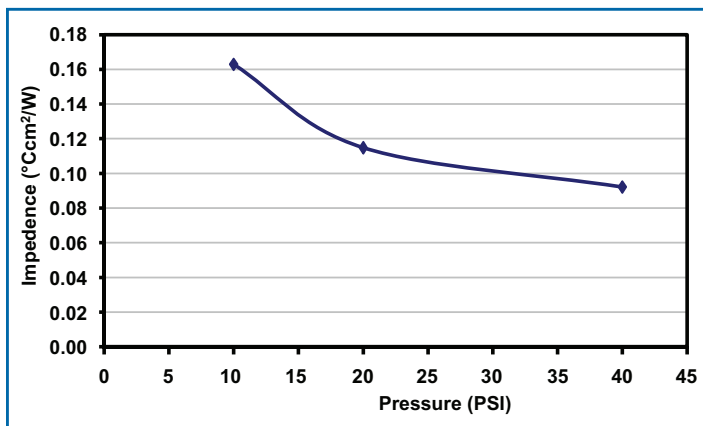
## MATERIAL CHARACTERISTICS\*

### Physical Properties

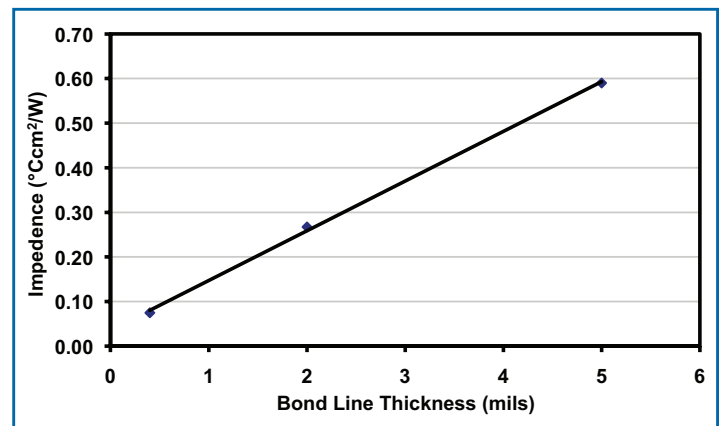
	LTM6300 (2 mil shim @ 40 PSI)	
Thermal Conductivity	≥2.03	W/m°C
Thermal Impedance	≤0.40	°C cm²/W
Volume Resistivity	≥3.0x10 <sup>15</sup>	Ωcm
Viscosity	<150,000	cps
Specific Gravity	1.8	g/cm³

\* Data shown is based on preliminary study of the product. Further engineering data will be collected during development to reflect performance in production batch modes.

Thermal Impedance vs. Pressure



Thermal Impedance vs. Bond Line Thickness



### Thermal Impedance Post Reliability

(Bond Line Thickness of 2mil)	LTM6300-SP
End of Line	0.25°C cm²/W
1000 cycles T/C "B"	0.17°C cm²/W
1000 hrs @ 85°C & 85%RH	0.23°C cm²/W
96 hrs HAST	0.23°C cm²/W
1000 hrs @ 150°C	0.18°C cm²/W



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OUR COMMITMENT TO SUSTAINABILITY

## Honeywell Electronic Materials

USA: 1-509-252-2102

China: 86-21-28942481

Germany: 49-5137-999-9199

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Korea: 82-2-3483-5076

Singapore: 65-6580-3593

Taiwan: 886-3-6580300 ext.312

[www.honeywell.com/sm/em](http://www.honeywell.com/sm/em)

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