

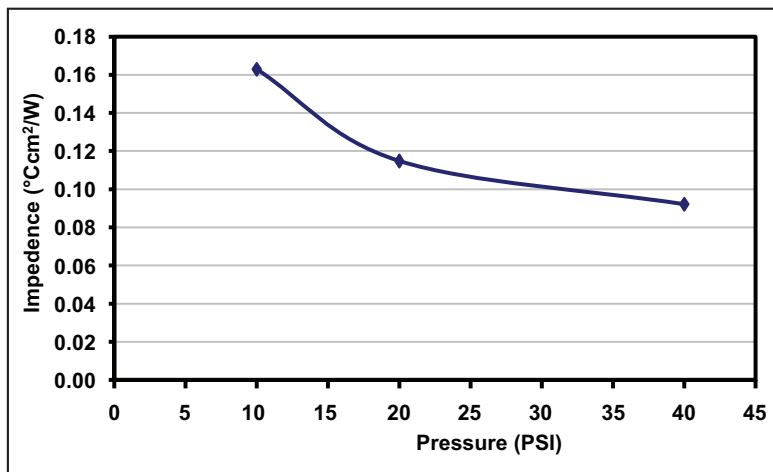
LTM6300-SP

High Thermal Conductivity Phase Change Material for Low Power Applications

Honeywell's LTM6300-SP phase change material (PCM) is specifically formulated for applications such as LED and other low power density devices. The patented* material is provided in paste/printable format. 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-SP provides longer life and good device stability while keeping product cost low.

LTM6300-SP Thermal Impedance (TI) vs. Pressure



LTM6300-SP is well-suited for devices with low power density.

Honeywell TIMs Serve Multiple Applications



Automotive & Power



IT/Enterprise



Telecomm



Consumer Electronics



High-Brightness LED

FEATURES & BENEFITS

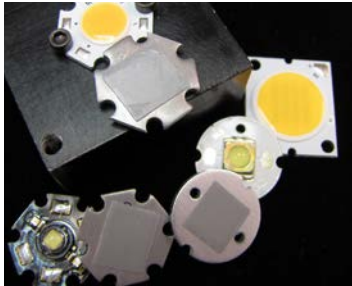
- High thermal conductivity
- Phase change at 45°C
- Ease of application
- Superior handling and reworkability
- Superior reliability performance
- Available in paste/printable format

LTM6300 Technical Information

Physical Properties	Unit	Test Method	LTM6300-SP
Thermal Conductivity	W/m-K	ASTM D5470	≥2.03
Thermal Impedance	°Ccm ² /W	ASTM D5470 Modified	≤0.40
Specific Gravity	g/cm ³	ASTM D374	1.8
Viscosity	Pa·s @ 2 1/s, 25 °C	RehometerHON	<150,000
Volume Resistivity	Ω·cm	ASTM D257-700	≥3.0x10 ¹⁵
Typical No Shim Bond Line @ 40 psi	mil	NA	0.5

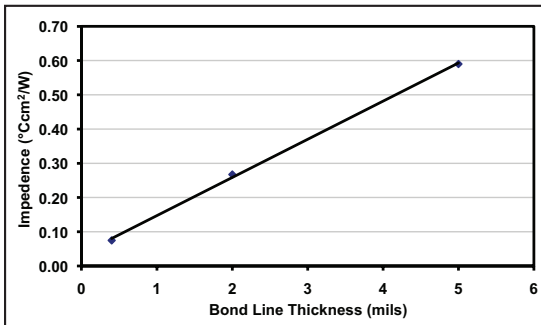
THERMAL IMPEDANCE POST RELIABILITY (ASTM E1461)

End of Line	0.25 °C-cm ² /W
Temperature Cycling "B" (-55 °C to +125 °C, 1000 cycles)	0.17 °C-cm ² /W
1000 hrs @ 85 °C & 85% RH	0.23 °C-cm ² /W
HAST, 96h	0.23 °C-cm ² /W
1000 hrs @ 150 °C	0.18 °C-cm ² /W



LTM6300-SP printed on LED modules.

LTM6300-SP may be provided in jars or cans.



LTM6300-SP Thermal Impedance vs. Bond Line Thickness

MORE HONEYWELL TIMs

LTM6300 is part of Honeywell's TIM Solutions family of phase change materials. Whatever the thermal challenge, we offer a TIM product that provides just the right characteristics for your application. Find out more about:

- PTM7000 Series
- PTM6000 Series
- PTM5000 Series
- PCM45F Series
- HT Series
- LTM Series

By visiting: electronicmaterials.com



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