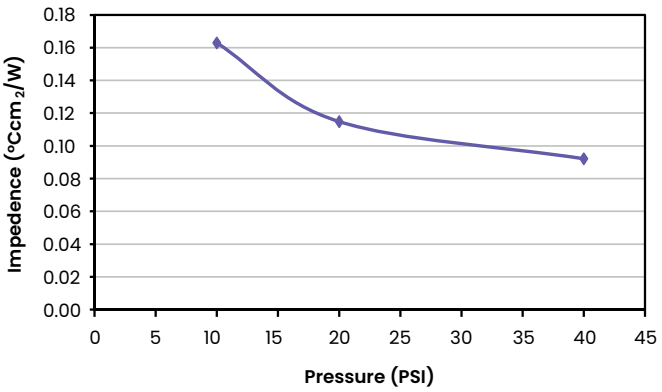
LTM6300-SP

HIGH THERMAL CONDUCTIVITY PHASE CHANGE MATERIAL FOR LOW POWER APPLICATIONS

Solstice'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.

FEATURES & BENEFITS

- High performance filler and polymer technology
- Phase change at 45°C
- Highly conductive filler loading to optimize performance
- Superior handling and reworkability
- Superior reliable thermal performance
- Available in both pad and paste formats

Solstice TIMs Serve Multiple Applications


Automotive & Power


IT/Enterprise


Telecomm


Consumer Electronics


High-Brightness LED

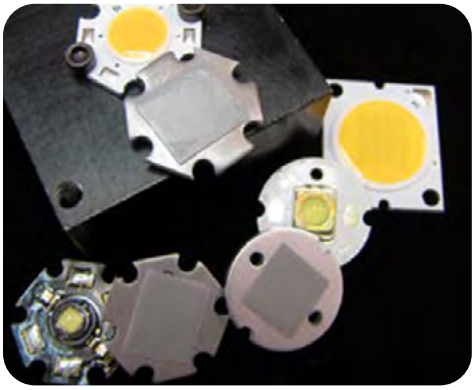
Solstice

LTM6300-SP TECHNICAL INFORMATION

PHYSICAL PROPERTIES	UNIT	TEST METHOD	LTM6300-SP
Thermal Conductivity	W/m·K	ASTM D5470	≥2.03
Thermal Impedance	°Ccm²/W	ASTM D5470 Modified	≤0.40
Specific Gravity	g/cm³	ASTM D374	1.8
Viscosity	Pa·s @2 1/s, 25°C	Rheometer	<150,000
Volume Resistivity	Ω·cm	ASTM D257-700	≥3.0x10¹⁵
Typical No Shim Bond Line @ 40 psi	mil	NA	0.5

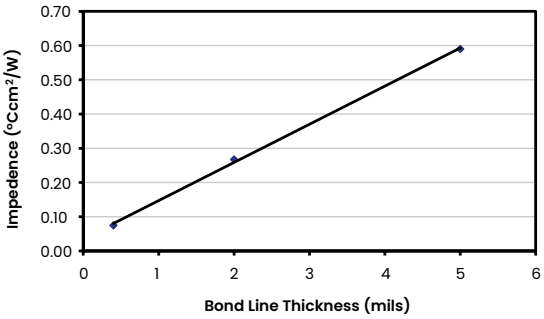
THERMAL IMPEDANCE POST RELIABILITY (ASTM E1461)

End of Line	0.25°C-cm²/W
Temperature Cycling "B" (-55°C to +125°C, 1000 cycles)	0.17°C-cm²/W
1000 hrs @ 85°C & 85% RH	0.23°C-cm²/W
HAST, 96 h	0.23°C-cm²/W
1000 hrs @ 150°C	0.18°C-cm²/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 Solstice TIMs

LTM6300-SP is part of Solstice'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 electronic-materials.com

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