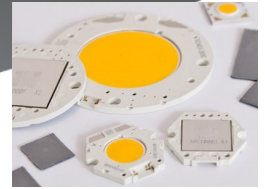


UniPhase 5500

Silicon Free - Phase Change Interface Material



UniPhase 5500 is a non silicon, high performance, phase changing thermal interface material, formulated to function as a superb alternative to messy and inconsistent thermal grease. Supplied as custom cut parts or in sheets, UniPhase 5500 will flow at a phase change temperature of 60°C and conform to the differing surface textures between a heatsink and LED COB or other device. In combination with device mounting pressure and phase change flow, UniPhase 5500 expels air voids at the interface helping to reduce thermal resistance.

Features

- Silicon Free with Low thermal resistance
- Highly reliable and consistent thermal interface for demanding applications
- Non-reinforced film

Availability

- Supplied in custom die-cut preforms and pads on sheets
- Available in a variety of thicknesses to suit individual application requirements

Physical Properties (for a typical thickness)

Property (unit)	Test Method	UniPhase 5500
Colour	Visual	Grey
Thickness (mm)	Visual	0.125, 0.25, 0.4
Max Operating Temp.(°C)	In House	125
Thermal Conductivity (W/mK)	ASTM D5470	5.5
Thermal Impedance @ 50 psi 70° (°C-cm²/W)	ASTM D5470	0.10
Softening Temperature (°C)	-	60

Benefits

- Delivers a consistent and reliable thermal interface
- Mounting pressures and phase change flow expels air between uneven surfaces reducing thermal impedance
- Delivers a thin bond line between surfaces helping to improve thermal performance

Recommended Uses

- Typically used to thermally connect an electrically isolated heat generating component to a heatsink
- Within an application to replace thermal grease
- Power supplies and power modules

Mechanical and Electrical Properties

Property (unit)	Test Method	UniPhase 5500
Volume Resistivity (Ω-cm)	ASTM D257	1.4×10^{14}
Density (g/cc)	ASTM D149	2.5
Flammability Rating	UL94	V0



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This material is often used in these industries:



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