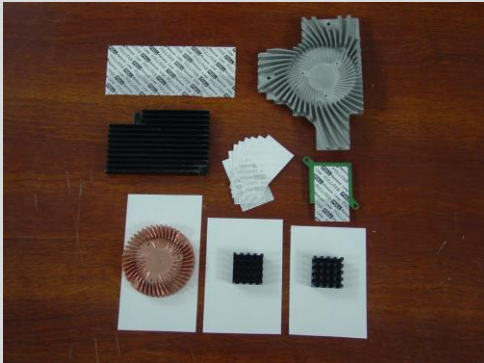


REINFORCED PHASE CHANGE MATERIAL

Features and Benefit

- Thermally conductive phase change material
- Excellent anti-piercing properties
- Excellent dielectric properties
- Naturally tacky
- RoHS compliant
- Halogen-free



E-Phase 9100 is a thermally conductive phase change material coated on polyimide film. The liquid phase of the material can fill interface irregularities with much higher efficiency than traditional gap filler while the polyimide layer offers excellent anti-pierce and dielectric properties.

E-Phase 9100 is RoHS complaint and naturally tacky. Additional adhesive is generally not required.

Typical Application

- Discrete power semiconductors
- Power supply modules
- Audio and video component
- General high pressure interface
- Micro processor

Color

- White (PCM)
- Amber (PI film)

Standard Configurations

- Thickness: 0.01" - 0.02" (0.25mm-0.50mm)
- Sheet size: 9" X 9"
- Please consult our factory for alternative thicknesses and die-cut options

Optional Configuration

- Adhesive coatings are optional

Typical Properties

E-Phase9100	Typical Data	Test Method
Construction & Composition	Phase change materials coated on both sides of polyimide film	—
Color	White	Visual
Thickness Range (inch)/(mm)	0.01" ~ 0.02"(±0.002) 0.25 ~ 0.50mm (±0.05)	—
Polyimide Film Thickness(mm)	0.05	—
Shelf life(months)	12	—
Phase change temperature range (°C)	50 °C ~ 65 °C	—
Temperature Range (°C)	-40 °C ~ 130 °C	—
Thermal Impedance @ 80psi (°C.in ² /W)	0.37	ASTM D5470 (Modified)
Burn-in temperature (°C)	75 °C for 5 minutes	—
Breakdown Voltage (V)	>8000(Thickness≥0.01")	ASTM D149
Volume Resistivity /ohm.cm	2.1 x 10 ¹⁵	ASTM D257
Thermal Conductivity (W.m ⁻¹ .K ⁻¹)	1.0	ASTM D5470 (Modified)

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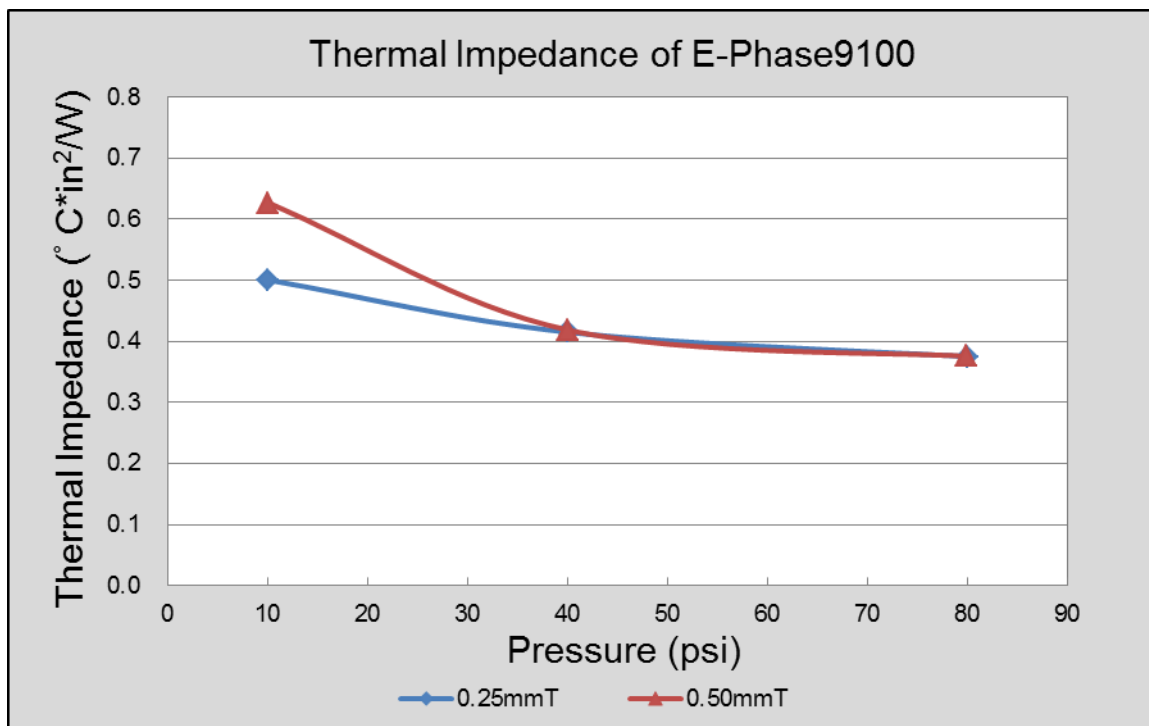
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