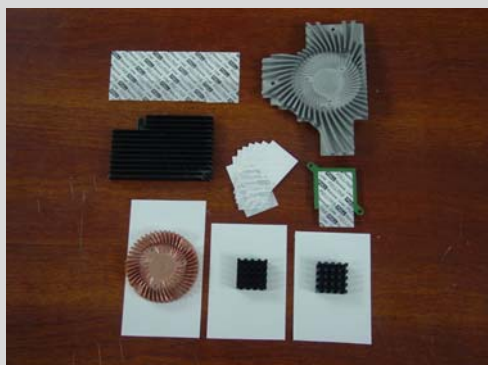


HIGH PERFORMANCE PHASE CHANGE MATERIAL

Features and Benefit

- Good thermal conductivity
- Naturally tacky
- Available in sheets
- Electrically Isolating



E-phase 800 is a thermally conductive phase change materials. It begins to soften at temperature over 50°C. The liquid phase of the material can fill interface irregularities with much higher efficiency than traditional gap filler. On the other hand, it is a solid at room temperature and can be handled easily during application.

It is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

Typical Application

- Automotive control units
- Power supply
- Audio and video component
- General high pressure interface
- Micro processor

Color

- White – standard colour
- Please contact us for other colour requirements

Standard Thickness

- 0.005", 0.01", 0.02"
- Consult the factory for alternative thicknesses

Standard Sheet Size

- 12" X 16"
- E-Phase may be die cut into individual sizes

Typical Properties

	E-Phase 805	E-Phase 810	E-Phase 820	Test Method
Construction & Composition	Phase change materials	Phase change materials	Phase change materials	—
Colour	White	White	White	Visual
Thickness Range (inch)/(mm)	0.005"±0.001" (0.13±0.025)	0.01"±0.001" (0.254±0.025)	0.02"±0.002" (0.508±0.05)	—
Specific Gravity (g/cm ³)	1.62	1.62	1.62	—
Shelf life	1 Year	1 Year	1 Year	—
Phase change temperature range (°C)	50°C to 60°C	50°C to 65°C	50°C to 65°C	—
Temperature Range (°C)	-40°C~130°C	-40°C~130°C	-40°C~130°C	—
Thermal Conductivity (W/m-K)	0.9	2.5	2.5	ASTM D5470 (Modified)
Thermal Impedance @ 10psi/50psi (°C-in ² /W)	0.044/0.025	0.12/0.079	0.19/0.088	ASTM D5470 (Modified)
"Burn-in" temperature (°C)	75°C for 5 minutes	75°C for 5 minutes	75°C for 5 minutes	—
Volume Resistivity (ohm-cm)	1.8 x 10 ¹³	1.8 x 10 ¹³	1.8x 10 ¹³	ASTM D257
Dielectric Constant @1MHz	3.0	3.0	3.0	ASTM D150

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