

Technical Data Sheet

Phase Change Material (PCM)

EverTherm PCM Series is very soft and shapeable and exhibits excellent thermal conductivity in the vertical (z-plane) direction. **EVSP205A-60** is a solid material at room temperature. When exposed to 45-55°C it becomes a soft semi-flowing paste. This allows easy shaping conformation between 2 compressed surfaces. The material will return back into solid state when it reaches below 45-55°C temperature. It can also be customized into different shapes and sizes based on the requirements of the application.



Material Properties

- Excellent thermal conductivity in the vertical z-plane
- Strong interface wetting ability, long-term reliable thermal conductivity
- Good flexibility & compression ratio
- Effectively reduce the coating thickness of the material between the interface
- Flexible and can be easily converted to custom sizes
- Thin and lightweight

Applications

- ✓ Semiconductor device testing,
 - CPU, GPU, MCM
 - Mobile phones & PC tablets, PCs, Servers, and cloud storage
- ✓ PDP, LED devices, IGBT Modules
- ✓ Optical communications equipment, medical equipment
- ✓ High frequency microprocessor
- ✓ Integrated Chip



EVSP205A-60

Item	Detection	Testing method
Color	Gray	Visual
Thickness(mm)	0.30mm	ASTM D751
Thickness tolerance	±0.02mm	ASTM D751
Density/cm ³)	2.80	ASTM D297
Applicable temp	-40°C - 125°C	***
Phase change temperature	45°C - 55°C	***
Volume Resistance (Ω.cm)	1.0 X 10 ¹¹	ASTM D257
Thermal conductivity (W/mK)	6.0±0.3	ASTM D5470
Dielectric constant(1MHZ)	5.0	ASTM D150
Thermal impedance@50psi(°C*in ² /W)	0.015	ASTM D5470
RoHS	PASS	IEC 62321
Halogen	PASS	EN14582
REACH	PASS	EN14372
Standard Sheet Size	305mm x 305mm	

Test fixtures using ASTM D5470. Recorded values include interface thermal resistance. These values are for reference only. The actual application performance is directly related to the applied surface roughness, flatness and pressure.

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Note: The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.