EverTherm™

Technical Data Sheet

Phase Change Material (PCM)

EVSP205P is a thermal phase change material having a softening temperature of 50-65 . The liquid phase of the material can fill interface irregularities with much higher efficiency than traditional gap filler. EVSP205P thermal phase change material is solid at room temperature and can be handled easily during installation.

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

EVSP205P thermal phase change material

Product Name	EVSP205P	Test Method
Color	Pink	Visual
Thickness	0.005(0.127mm)	ASTM D751
Thickness Tolerance	±0.0006"(±0.016mm)	ASTM D751
Density （g/cc）	1.8	ASTM D297
Temperature range	-40 ~ 125	***
Phase Change Softening Temperature	50 ~ 65	***
Volume Resistivity (Ohm.cm)	2.0 X 1013	ASTM D257
Thermal Conductivity （W/mK）	2.5	ASTMD5470(modified)
Dielectric Constant, (1M HZ)	3.0	ASTM D150
Thermal Impedance @50psi /@10psi(℃-in2/W)	0.03 /0.08	ASTM D5470 (modified)
RoHS	PASS	IEC 62321
Halogen	PASS	EN14582
REACH	PASS	EN14372

Our products have passed 1000 hours cold and hot shock test,1000 hours double 85 test,1000 hours high temperature aging test. CRT is committed to providing the most reliable heat conduction solutions for automobile, communication, security and other industries.

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