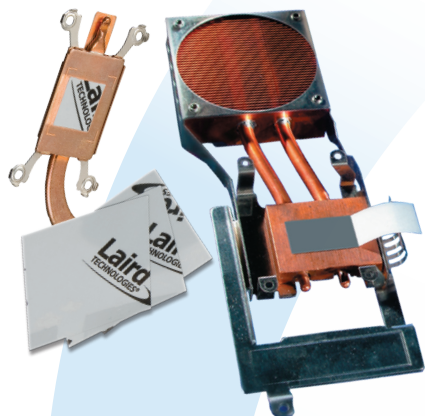




Tpcm™ 900 is a high performance, non-electrically conductive phasechange material. At 50°C, Tpcm™ 900 begins to soften and flow, filling the microscopic irregularities of both the thermal solution and the component's surfaces, thereby reducing thermal resistance. It is a flexible solid at room temperature and freestanding without reinforcing components that reduce thermal performance.

Tpcm 900 shows no performance degradation after 1,000 hours @ 130°C, or after 500 cycles, from -25°C to 125°C. The material softens and does not fully change state, resulting in minimal migration (pump out) at operating temperatures (see viscosity curve). Supplied in rolls with top tabbed liners for easy manual or large volume automatic application. Individually die cut parts can also be supplied.

FEATURES AND BENEFITS

- 0.03°C-in²/watt thermal resistance
- Naturally tacky at room temperature, no adhesive required
- No heatsink preheating required
- Available in 3 thicknesses, 0.005", 0.010" and 0.020" (0.125 mm, 0.25 mm and 0.50 mm)

APPLICATIONS

- High frequency microprocessors
- Notebook and desktop PCs
- Computer servers
- DC/DC converts
- Memory modules
- Cache chips
- IGBTs

PROPERTIES	Tpcm™ 905C	Tpcm™ 910	Tpcm™ 920	Test Method
Construction & Composition	Non-reinforced boron nitride filled film	Non-reinforced boron nitride filled film	Non-reinforced boron nitride filled film	
Color	Yellow	Yellow	Yellow	Visual
Thickness	0.005" (0.13 mm)	0.010" (0.25 mm)	0.020" (0.51 mm)	
Thickness Tolerance	± 0.001" (± 0.025 mm)	± 0.001" (± 0.025 mm)	± 0.002" (± 0.05 mm)	
Density	1.31 g/cc	1.39 g/cc	1.39 g/cc	Helium Pycnometer
Temperature Range	-25 to 125°C	-25 to 125°C	-25 to 125°C	
Phase Change Softening Temperature	50°C to 70°C	50°C to 70°C	50°C to 70°C	
"Burn In" Temperature	70°C for 5 minutes	70°C for 5 minutes	70°C for 5 minutes	
Thermal Conductivity	0.7 W/mK	2.23 W/mK	2.23 W/mK	ASTM D5470 (modified)
Thermal Impedance @ 10 psi (69 KPa) @ 50 psi (345 KPa)	0.048 °C-in ² /W (0.31 °C-cm ² /W) 0.029 °C-in ² /W (0.19 °C-cm ² /W)	0.14 °C-in ² /W (0.90 °C-cm ² /W) 0.083 °C-in ² /W (0.53 °C-cm ² /W)	0.18 °C-in ² /W (1.14 °C-cm ² /W) 0.095 °C-in ² /W (0.61 °C-cm ² /W)	ASTM D5470 (modified)
Volume Resistivity	2 x 10 ¹³ ohm-cm	2 x 10 ¹³ ohm-cm	2 x 10 ¹³ ohm-cm	ASTM D257
Dielectric Constant @ 1 MHz	3.1	3.1	3.1	ASTM D150

Standard Thicknesses: 0.005" (0.13 mm) 0.010" (0.25 mm) 0.020" (0.51 mm)
Consult the factory for alternate thicknesses

Standard Sheet Sizes: 9" x 9" (229 mm x 229 mm)

Tpcm™ 900 sheets are supplied with a white release paper and a bottom liner.

Tpcm™ 900 is available in rolls with an extended tab liner or individual die cut shapes.

Pressure Sensitive Adhesive: Pressure sensitive adhesive is not applicable for Tpcm™ products.

Reinforcement: No reinforcement is necessary.

global solutions: local support™

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THR-DS-Tpcm-900 0910

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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