

FOR EXCEPTIONALLY LOW THERMAL RESISTANCE

The Tmate™ 2900 Series is a reusable phase change material (PCM) designed for ease of testing and rework ability. It has a composite construction of a special malleable metal alloy and a high-performance PCM.

At 50°C, the Tmate 2900 Series begins to soften and flow, filling the microscopic irregularities of the thermal solution, thus reducing thermal resistance.

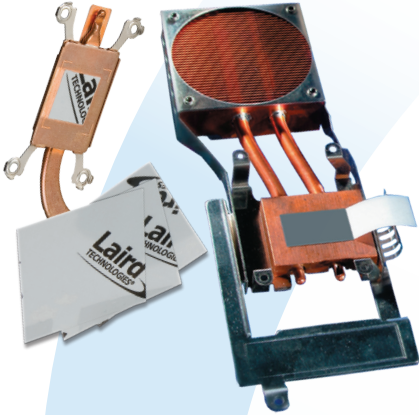
It shows no thermal performance degradation after 1,000 hours @130°C, or after 500 cycles from -25°C to 125°C. The PCM softens and does not fully change state, resulting in minimal migration (pump-out) at operating temperatures (see viscosity curve). It is available in three thicknesses: 0.005" (0.125 mm), 0.010" (0.25 mm), and 0.020" (0.5 mm).

FEATURES AND BENEFITS

- Low thermal resistance at low pressures
- Reusable: make and break thermal interface connection many times
- Naturally tacky at room temperature, no adhesive required
- No heat sink preheating required

APPLICATIONS

- High frequency microprocessors
- Notebook and desktop PCs
- Computer servers
- Thermal test stands



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www.lairdtech.com/thermal

SPECIFICATIONS

PROPERTIES	Tmate™ 2905c	Tmate™ 2910c	Tmate™ 2920	TEST METHOD
Construction & composition	Foil reinforced boron nitride filled film			
Color	Yellow/Silver			Visual
Thickness	0.005" (0.13 mm)	0.010" (0.25 mm)	0.020" (0.51 mm)	
Thickness tolerance	± 0.001" (±0.03 mm)	± 0.001" (±0.03 mm)	± 0.002" (±0.05 mm)	
Density	1.86 g/cc	1.64 g/cc	1.52 g/cc	Helium Pycnometer
Shelf life	1 Year			
Temperature range	-25°C to 125°C			
Phase change softening temperature	50°C to 70°C			
"Burn-In" temperature	70°C for 5 min			
Thermal impedance				
@20 psi	0.07°C-in ² /W	0.09°C-in ² /W	0.27°C-in ² /W	ASTM D5470 (modified)
@130 KPa	0.45°C-cm ² /W	0.61°C-cm ² /W	1.74°C-cm ² /W	
Volume resistivity	5 x 10 ¹² ohm-cm			ASTM D257
Dielectric constant @ 1 MHz	4.2			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)

Tmate™ 2900 sheets are supplied with a clear polyester top liner to protect phase change material.

Tmate™ 2900 is available in individual die cut shapes.

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

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