

global solutions :
local support™

T-mate™ 2900 Series

T-mate™ 2900 is a reusable phase change material designed for ease of testing and rework ability. T-mate™ 2900 has a composite construction of a special malleable metal alloy and a high performance phase change material.

At 50°C, T-mate™ 2900 begins to soften and flow, filling the microscopic irregularities of the thermal solution, thus reducing thermal resistance.

T-mate™ 2900 shows no thermal performance degradation after 1,000 hours @130°C, or after 500 cycles, from -25°C to 125°C. The phase change material softens and does not fully change state resulting in minimal migration (pump out) at operating temperatures (see viscosity curve). T-mate™ 2900 is available in three thicknesses, 0.005" (0.125mm), 0.010" (0.25mm) and 0.020" (0.5mm).

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 heatsink preheating required

Applications:

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

For sales information:

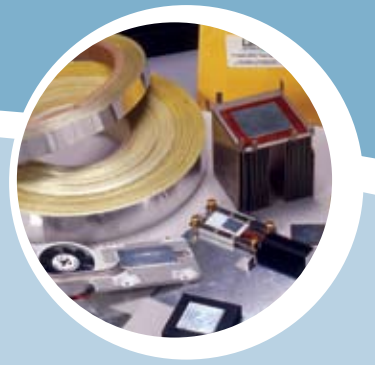
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or visit: www.lairdtech.com





T-mate™ 2900 Series

	T-mate™ 2905c	T-mate™ 2910c	T-mate™ 2920	Test Method
Construction & Composition	Foil reinforced boron nitride filled film	Foil reinforced boron nitride filled film	Foil reinforced boron nitride filled film	
Color	Yellow/Silver	Yellow/Silver	Yellow/Silver	Visual
Thickness	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)	
Thickness Tolerance	± 0.001" (± 0.03mm)	± 0.001" (± 0.03mm)	± 0.002" (± 0.05mm)	
Density	1.86 g/cc	1.64 g/cc	1.52 g/cc	Helium Pycnometer
Shelf Life	1 Year	1 Year	1 Year	
Temperature Range	-25°C to 125°C	-25°C to 125°C	-25°C 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 min.	70°C for 5 min.	70°C for 5 min.	
Thermal Impedance @ 20 psi @ 138 KPa	0.07°C-in ² /W 0.45°C-cm ² /W	0.09°C-in ² /W 0.61°C-cm ² /W	0.27°C-in ² /W 1.74°C-cm ² /W	ASTM D5470 (modified)
Volume Resistivity	5 x 10 ¹² ohm-cm	5 x 10 ¹² ohm-cm	5 x 10 ¹² ohm-cm ASTM D257	
Dielectric Constant @ 1MHz	4.2	4.2	4.2	ASTM D150

Standard Thicknesses: 0.005" (0.13mm) 0.010" (0.25mm) 0.020" (0.51mm)

Consult the factory for alternate thicknesses

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

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

T-mate™ 2900 is available in individual die cut shapes.

Adhesive: Pressure sensitive adhesive is not applicable for T-mate™ products.

-Our customers are reminded that they bear the responsibility for testing Laird Technologies' materials for their proposed use. Any information furnished by Laird Technologies and its agents is believed to be accurate and reliable, but our customers must bear all responsibility for the use and application of Laird Technologies' materials since Laird Technologies' and its agents cannot be aware of all potential use. Laird Technologies makes no warranties as to the fitness, merchantability, or suitability of any Laird Technologies' materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies' products are sold pursuant to the Laird Technologies' domestic terms and conditions of sale in effect from time to time, a copy of which will be furnished upon request.

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