

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.

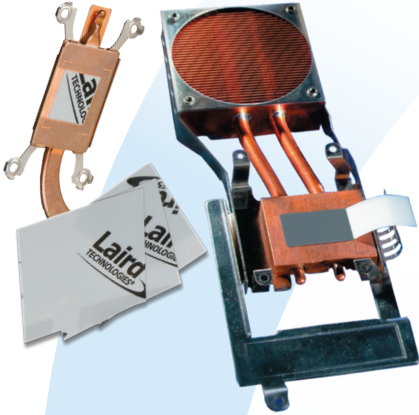
It shows no thermal performance degradation after 1,000 hours @130°C, or after 500 cycles from -25°C to 125°C. The PCM softens and does not fully change state, resulting in minimal migration (pump-out) at operating temperatures (see viscosity curve). It is available in three thicknesses: 0.005" (0.125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



global solutions: local support.™

Americas: +1.888.246.9050

Europe: +46.31.704.67.57

Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com

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.

global solutions: local support™

Americas: +1.888.246.9050

Europe: +46.31.704.67.57

Asia: +86.755.2714.1166

THR-DS-TMATE2900 1110

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. 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 Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9