



PRODUCT DESCRIPTION

Tflex™ 50000 is a compliant elastomer gap filler designed to provide excellent thermal performance while remaining cost effective. This soft interface pad conforms well with minimal pressure, resulting in minimal stress on mating parts. Tflex™ 50000's unique silicone and filler combination has extremely low silicone extractables compared to many other silicone interface products. Tflex™ 50000 meets the NASA outgassing specification. Tflex™ 50000 is naturally tacky, no adhesive coating is required. Tflex™ 50000 is electrically insulating, stable from -50°C to 200°C and is certified to UL 94V0 flammability rating.

Tflex 50000 is provided in thicknesses from 0.5mm (.020") up to 5mm (.200") in 250 micron (.010") increments as standard. In addition, Laird can provide Tflex 50000 in multiple converted formats through approved converters and distribution networks. Also, if your application requires, we can deliver sheets of material as large as 460mm (18") X 460mm (18").

Tflex 50000 replaces Tflex 500 with units of thickness measured in metric units of microns instead of mils. All other properties are the same.

FEATURES AND BENEFITS

- 2.8 W/mK thermal conductivity
- Low pressure versus deflection
- Highly compliant and cost effective
- Minimizes board and component stress
- Naturally tack for easy assembly
- Low silicone extractables
- Converted parts and sheets available
- .5mm (.020") to 5mm (.200") standard
- Naturally tacky or available with Laird's tack eliminating DC1 coating (DC1 available on one side only)

SPECIFICATIONS

CATEGORIES	TYPICAL VALUE	METHOD
Construction	Filled silicone elastomer	
Color	Light Blue	Visual
Thermal Conductivity	2.8 W/mK	Hot Disk
Hardness (Shore 00; 3 sec)	40	ASTM D2240
Specific Gravity	3.0	Helium Pycnometer
Flammability	VO	UL 94
Temperature Range	-40C to 200C	
Outgassing TML	0.29%	ASTM E595
Outgassing CVCm	0.04%	ASTM E595
Thickness Range	.5mm to 5mm (.020"- .200")	250 micron increments

PART NUMBER INFORMATION

T f l e x 5	0 5 0 0	Increment of 250µm
Product code	Pad thickness	0500 => 500µm
		0750 => 750µm
		1500 => 1500µm
		5000 => 5000µm

Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

THR-DS-Tflex 50000_082917

CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

Any information furnished by Laird 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 materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird, Laird Technologies, Inc. or any of its affiliates or agents shall not be liable for incidental or consequential damages of any kind. All Laird 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 2015 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Performance Materials:](#)

[A17679-17](#) [A17667-18](#) [A17679-02](#) [A17666-09](#) [A17667-11](#) [A17666-06](#) [A17667-15](#) [A17679-13](#) [A17666-04](#)
[A17666-03](#) [A17667-04](#) [A17667-10](#) [A17667-19](#) [A17667-05](#) [A17679-05](#) [A17679-03](#) [A17667-13](#) [A17679-11](#) [A17679-](#)
[19](#) [A17679-06](#) [A17679-16](#) [A17667-12](#) [A17667-16](#) [A17666-05](#) [A17679-08](#) [A17679-09](#) [A17667-09](#) [A17679-10](#)
[A17667-06](#) [A17679-14](#) [A17667-17](#) [A17666-02](#) [A17666-07](#) [A17679-04](#) [A17667-03](#) [A17667-02](#) [A17667-20](#) [A17667-](#)
[07](#) [A17679-18](#) [A17679-20](#) [A17679-07](#) [A17667-14](#) [A17679-15](#) [A17679-12](#)