



### PRODUCT DESCRIPTION

Tflex™ SF10 is an innovative, high performing thermal material in Laird’s gap filler portfolio. This silicone free material measures 10 W/mk and has excellent deflection properties which provides minimal pressure on components during deflection. Very little pressure is required to reach the lowest possible thermal resistance.

### FEATURES AND BENEFITS

- Silicone free formulation
- Low peak and residual pressure
- Excellent surface wetting for low contact resistance
- Exceptionally low thermal resistance
- No Fiberglass reinforcement
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

### TYPICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	TEST METHOD
<b>Construction &amp; Composition</b>	Ceramic filled silicone free thermoplastic	N/A
<b>Color</b>	Grey	Visual
<b>Thickness Range</b>	0.5mm – 4mm	N/A
<b>Thermal Conductivity</b>	10 W/mk	ASTM D5470
<b>Density</b>	3.7 g/cc	Helium Pycnometer
<b>Thermal Resistance (1.5mm) @ 30% deflection, 50 °C</b>	0.353°C–cm <sup>2</sup> /W (0.05 Cin <sup>2</sup> /W)	ASTM D5470
<b>Temperature Range</b>	-40°C to 125°C	Laird Test Method
<b>Hardness Shore 00 (3 second)</b>	41	ASTM D2240
<b>Hardness Shore 00 (30 second)</b>	8	ASTM D2240
<b>Dielectric Constant @1MHz</b>	9	ASTM D150
<b>Volume Resistivity (Ω cm)</b>	10 <sup>14</sup>	ASTM D257
<b>UL Flammability Rating</b>	V-0 (Pending)	UL 94

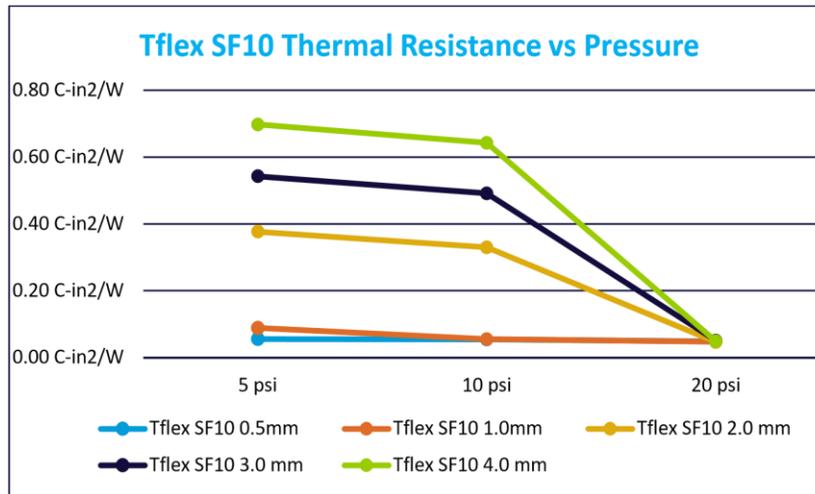
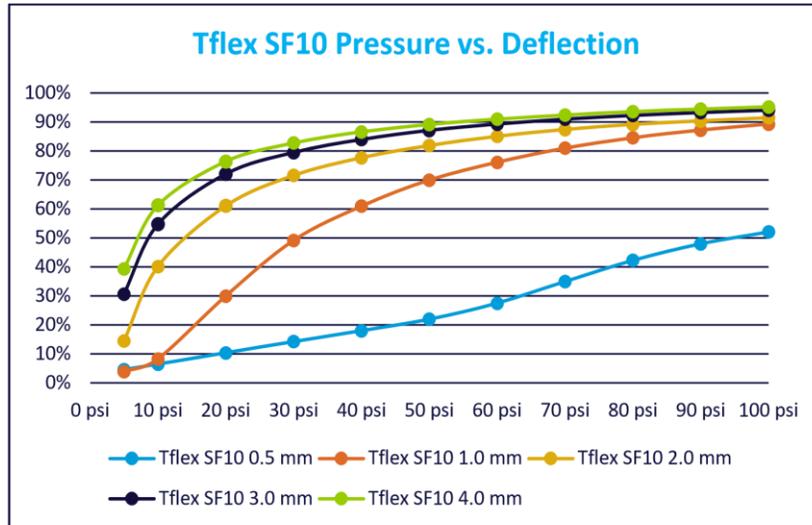
USA: +1.866.928.8181

Europe: +49.8031.24600

Asia: +86.755.2714.1166

[www.laird.com](http://www.laird.com)





### AVAILABILITY

- 0.50 mm (0.020”) to 4.0 mm (0.160”) thick material available in 0.25mm (0.010”) increments
- Available in standard sheet sizes of 18” x 18”, 9” x 9” or custom converted die cut parts

### PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. SF10 is a silicone free 10 W/mk material. Thickness of the sheet in mm is listed after the material name.

#### EXAMPLES:

- Tflex™ SF10,1.00 = 1.00mm thick Tflex SF10 material

A18314-00 Tflex SF10 Data Sheet 1-12-21

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. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement 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 2021 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies 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 property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.