

# Tflex<sup>™</sup> SF10 Series Thermal Gap Filler Preliminary Data Sheet



### **PRODUCT DESCRIPTION**

Tflex<sup>™</sup> SF10 is an innovative, high performing thermal mat riz ∩ Laird's gap filler portfolio. This silicone free material measures 10 V <sup>(</sup>rik 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 plessula
- Excellent surface wetting to flow contact resistance
- Exceptionally low the mal resistance
- No Fiberglass reinforcement
- Environmentally friendly solution that meets regulatory requirements including RoHs and KEACH



# TH CAL PROPERTIES

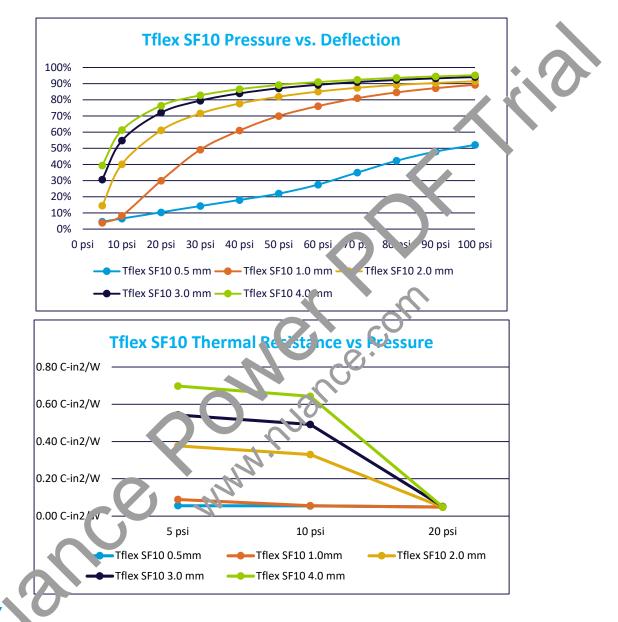
ROPERTIES A	TYPICAL VALUE	TEST METHOD
Construction & Composition	Ceramic filled silicone free thermoplastic	N/A
Color	Grey	Visual
Thickness Range	0.5mm – 4mm	N/A
Thermal Conductivity	10 W/mk	ASTM D5470
Density	3.7 g/cc	Helium Pycnometer
Thermal Resistance (1.5mm) @ 30% deflection, 50 °C	0.05 C-in2/W	ASTM D5470
Temperature Range	-40° C to 125° C	Laird Test Method
Hardness Shore 00 (3 second)	41	ASTM D2240
Hardness Shore 00 (30 second)	8	ASTM D2240
Dielectric Constant @1MHz	9	ASTM D150
Volume Resistivity (Ω cm)	10^14	ASTM D257
UL Flammability Rating	V-0 (Pending)	UL 94

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**AVAILABILITY** 

50 n. m (0.020") to 4.0 mm (0.160") thick material available in 0.25mm (0.010") increments

Ave. 'able in standard sheet sizes of 18" x 18", 9" x 9" or custom converted die cut parts

## PART NUMBER SYSTEM

Tflex<sup>™</sup> 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<sup>™</sup> SF10,1.00 = 1.00mm thick Tflex SF10 material

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