



**\*Ready for 5G**

## Product Description

Tflex™ 300, at pressures of 50psi, will deflect to over 50% the original thickness. This high rate of compliancy allows the material to “totally blanket” the component, enhancing thermal transfer. The material has a very low compression set enabling the pad to be reused many times.

Tflex™ 300, in achieving its stellar compliancy, does not sacrifice thermal performance. With a thermal conductivity of 1.2 W/mK, low thermal resistances can be achieved at low pressures.

Tflex™ 300H is offered with a hard, metallized liner option for easy handling and improved rework. The metallized liner’s lower coefficient of friction also allows for easy assembly of parts that must slide together, such as a card into a chassis.

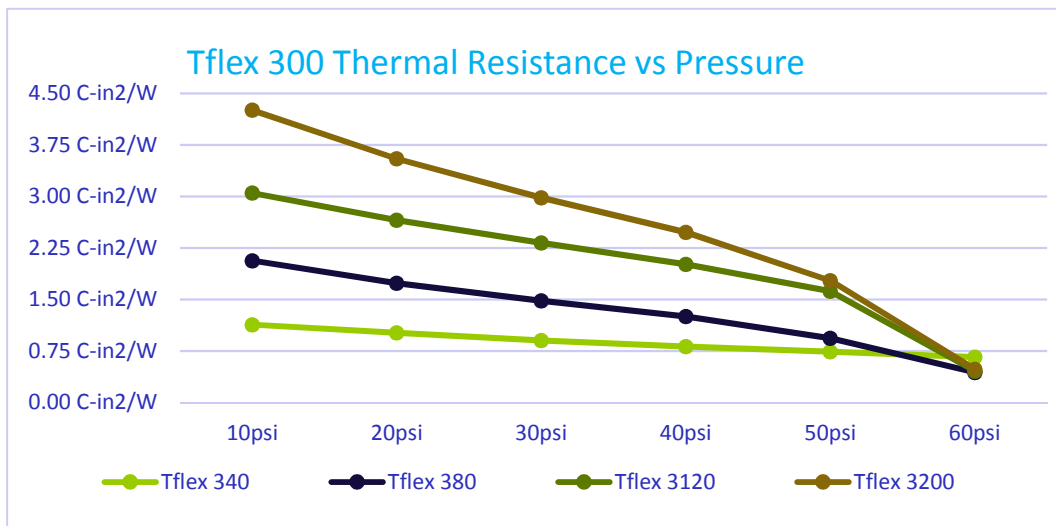
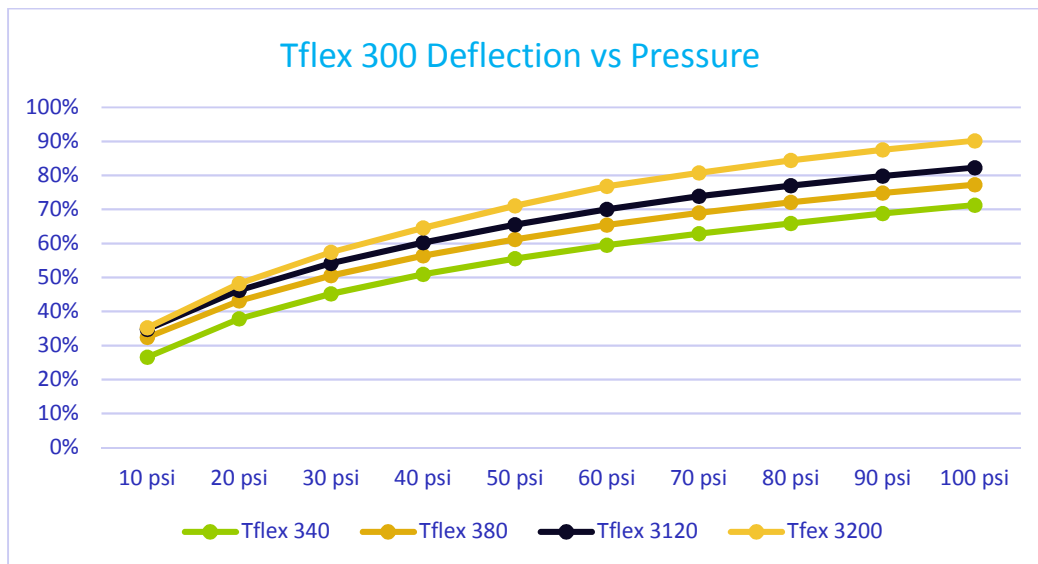
Tflex™ 300TG is offered with a cut-through resistant Tgard™ silicone liner. The TG liner offers a guaranteed dielectric barrier, and easier part handling for mass production.

## FEATURES AND BENEFITS

- Extreme compliancy allows material to “totally blanket” components
- Thermal conductivity of 1.2 W/mK
- Low compression set enables the pad to be reused many times
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

## SPECIFICATIONS

TYPICAL PROPERTIES	VALUE	TEST METHOD
<b>Construction &amp; Composition</b>	Ceramic filled silicone sheet	N/A
<b>Color</b>	Light Green	Visual
<b>Thickness Range</b>	0.50mm (0.020”) - 5.08mm (0.20”)	N/A
<b>Thermal Conductivity (W/mK)</b>	1.2	ASTM D5470
<b>Density (g/cc)</b>	1.78	Helium Pycnometer
<b>Hardness (Shore 00)</b>	51.4 (20-30 mil) 25.2 (40+ mil)	ASTM D2240
<b>Outgassing TML (weight %)</b>	0.56	ASTM E595
<b>Outgassing CVCM (weight %)</b>	0.1	ASTM E595
<b>Temperature Range</b>	-40°C to 160°C	N/A
<b>Rth@ 40 mils, 10 psi, 50°C</b>	0.98°C–in <sup>2</sup> /W	ASTM D5470 (modified)
<b>* Dielectric Constant @ 10GHz</b>	4.5 *	ASTM D150
<b>UL Flammability Rating</b>	V-0	UL 94
<b>Volume Resistivity</b>	10 <sup>13</sup> ohm-cm	ASTM D257



## AVAILABILITY

### STANDARD THICKNESSES

- 0.5mm (0.020") to 5.0mm (0.200") thick material available in 0.25mm (0.010") increments
- Available in standard sheet sizes of 18" x 18" and 9" x 9" or custom die cut parts

### OPTIONS

- DC1 proprietary tack eliminated coating
- Tgard™ "TG" dielectric barrier available to aid in handling and PET dielectric "H" liner available for applications for easy slide assembly

## PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. 3xxx indicates Tflex 300 product line with thickness in mils (0.001")

### EXAMPLES:

- Tflex™ 340 = 0.040 inch thick Tflex™ 300 material
- Tflex™ 380DC1 = 0.080 inch thick Tflex™ 300 material with DC1 coating
- Tflex™ 3120TG = 0.120 inch thick Tflex™ 300 material with Tgard™ liner
- Tflex™ 3200H = 0.200 inch thick Tflex™ 300 material with hard PET liner

A15293-00 Tflex 300 DS 071718

# Mouser Electronics

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## Laird Performance Materials:

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