



THE DATASHEET OF
A13351-01





***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.

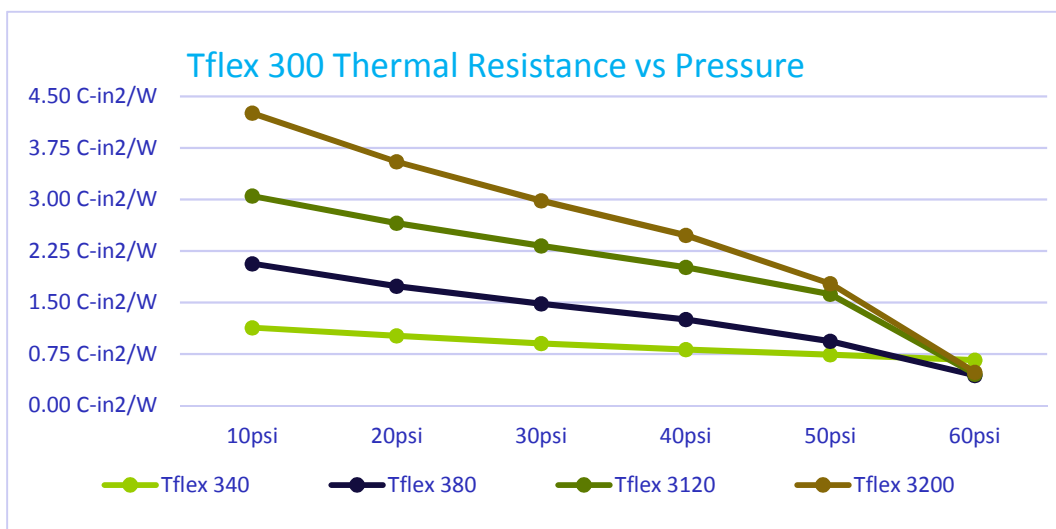
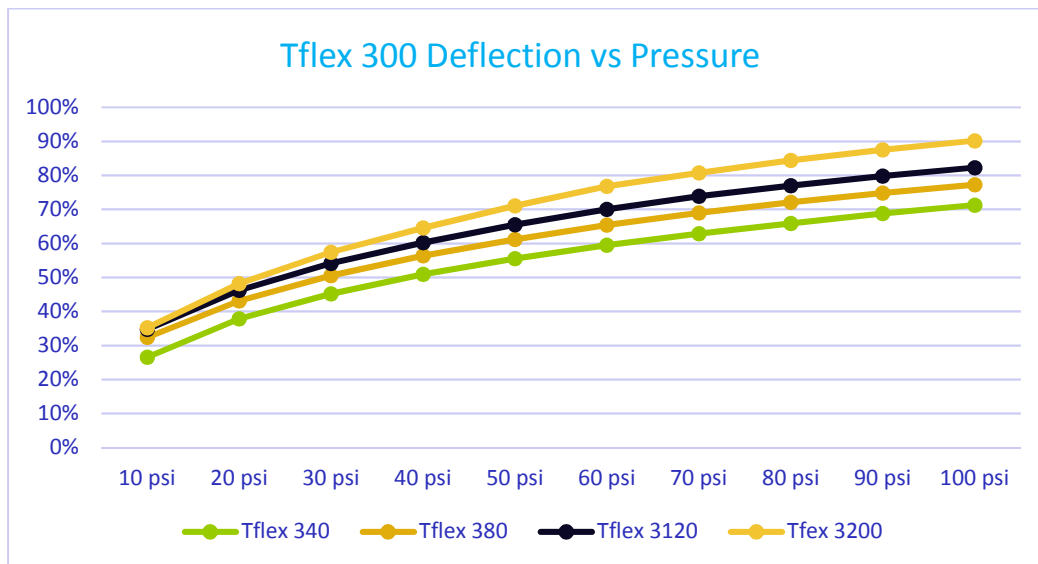
Tflex™ 300TG is offered with a cut-through resistant Tgard™ silicone liner. The TG liner offers a guaranteed dielectric barrier, and easier part handling for mass production.

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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- ⊖ [Laird Technologies - Thermal Materials Information](#)

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