

Tflex 300 Series Thermal Gap Filler



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

Construction & Composition Ceramic filled silicone sheet N/A	
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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 Pyncometer	er
Hardness (Shore 00) 51.4 (20-30 mil) ASTM D2240	
25.2 (40+ mil)	
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–in2/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	

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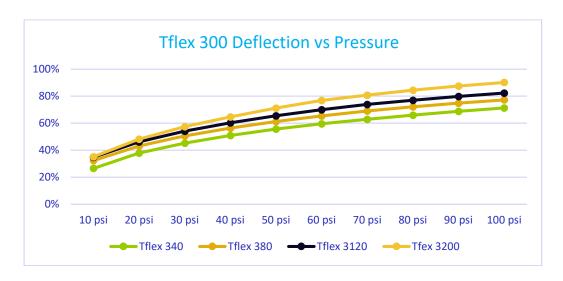


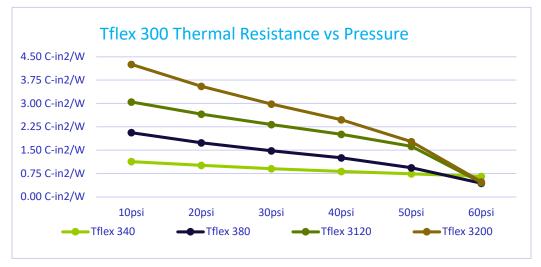
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AVAILABILITY

STANDARD THICKNESSES

- 0.5mm (0.020") to 5.0mm (0.200") thick material available in 0.25mm (0.010") increments. Other custom thicknesses may be available
 upon request.
- 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 where easy slide assembly is desirable

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

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