



PRODUCT DESCRIPTION

Laird Tflex™ HD300 is a 2.7 W/mK gap filler material in Laird's high deflection line of products. Tflex HD300 is an excellent choice when wide manufacturing tolerances occur as variable gaps can be filled with Tflex HD300 while generating minimal board and component stress. Laird's unique manufacturing capabilities, and filler and resin knowledge result in this unique product designed with customer applications in mind.

Tflex HD300 material exhibits excellent surface wetting characteristics and high deflection properties ensuring low contact resistances and providing an overall lower total thermal resistance.

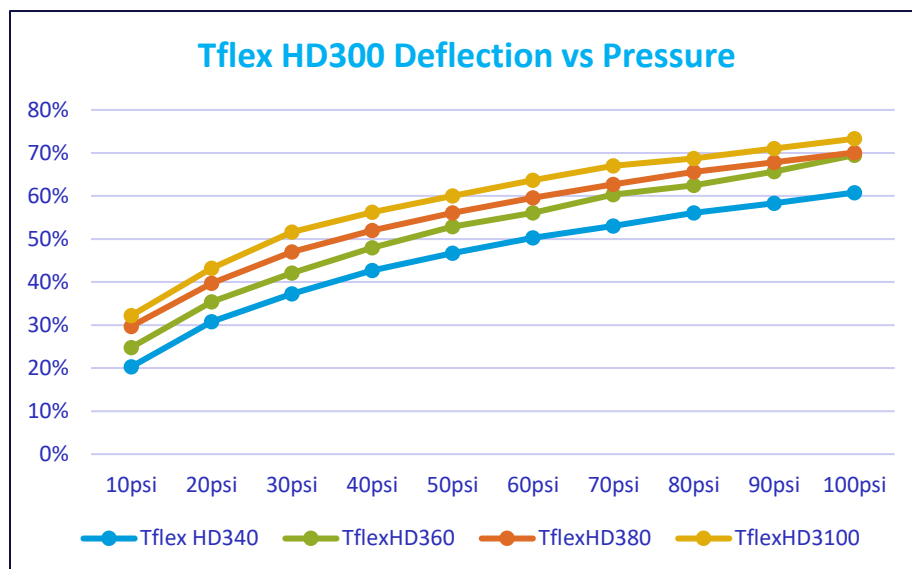
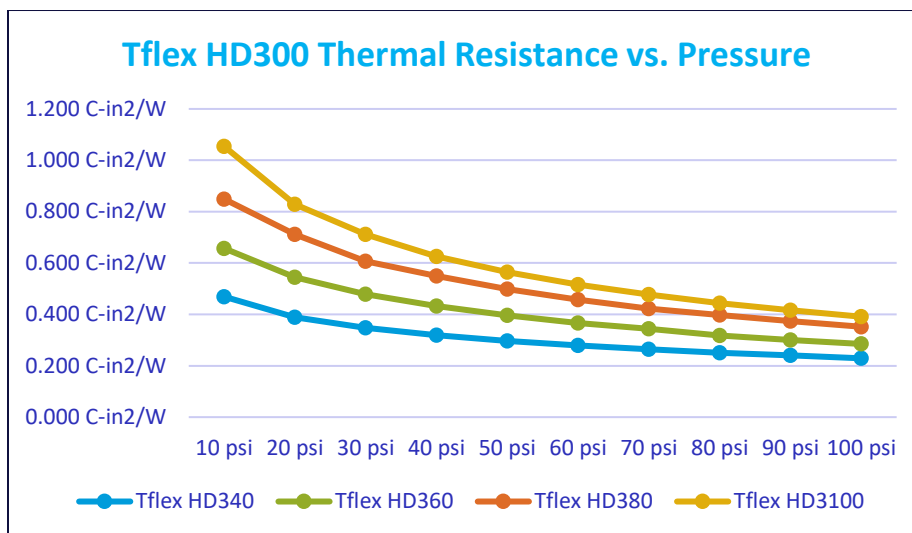
Tflex™ HD300 is provided in thickness from 0.5mm (.020") up to 5mm (.200") in 0.5mm (.020") increments as standard. In addition, Laird can provide Tflex™ HD300 in multiple converted formats through approved converters and distribution networks.

FEATURES AND BENEFITS

- 2.7 W/m K thermal conductivity
- Low pressure versus deflection characteristics
- Excellent surface wetting for low contact resistance
- Minimizes board and component stress.
- Large tolerance applications
- RoHS and REACH compliant

SPECIFICATIONS

| TYPICAL PROPERTIES | VALUE | TEST METHOD |
|-----------------------------|-------------------------------|-----------------------|
| Construction & Composition | Ceramic filled silicone sheet | N/A |
| Color | Pink | Visual |
| Thickness Range | 0.50mm (0.020") 5.0mm (0.20") | N/A |
| Thickness Tolerance | +/- 10% | N/A |
| Thermal Conductivity (W/mK) | 2.7 | ASTM D5470 |
| Density (g/cc) | 3.1 | Helium Pycnometer |
| Hardness (Shore 00) | 38 | ASTM D2240 |
| Outgassing TML (weight %) | 0.39 | ASTM E595 |
| Outgassing CVCM (weight %) | 0.10 | ASTM E595 |
| Temperature Range | -40°C to 200°C* | Laird Test Method |
| Rth@ 40 mils, 10 psi | 0.573°C-in ² /W | ASTM D5470 (Modified) |
| Dielectric Constant @ 1 MHz | 6.62 | ASTM D150 |
| UL Flammability Rating | V-0 | UL-94 |
| Volume Resistivity | 1.2x 10 ¹⁴ | 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 – eliminate tack from one side

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. HD3xxx indicates Tflex HD300 product line with thickness in mils (0.001”)

EXAMPLES:

- Tflex HD340 = 0.040” thick Tflex™ HD300 material
- Tflex HD3100DC1 = 0.10” thick Tflex™ HD300 material with DC1 option

Tflex HD300 DS 080519