



PRODUCT DESCRIPTION

Laird Tflex™ HD80000 is the latest product in the High Deflection gap filler series. Tflex™ HD80000 combines 6 W/mK thermal conductivity with superior pressure versus deflection characteristics. The combination will allow minimal stress on components while also yielding low thermal resistance. As a result, less mechanical and thermal stresses will be experienced within your device.

The Tflex HD80000 material is extremely soft, but also can be handled and applied manually without the need to add a fiberglass or other reinforcement layer, maintaining the superior thermal performance of the product.

FEATURES AND BENEFITS

- 6 W/mK thermal conductivity
- Low pressure versus deflection
- Excellent surface wetting for low contact resistance
- No fiberglass reinforcement
- Minimizes board and component stress
- 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 | Teal | Visual |
| Thickness Range | 1 mm (0.040") - 5.0mm (0.20") | N/A |
| Thickness Tolerance | +/- 10% | N/A |
| Thermal Conductivity (W/mK) | 6.0 | Hot Disk |
| Density (g/cc) | 3.3 | Helium Pycnometer |
| Hardness (Shore 00, 3 sec) | 40 | ASTM D2240 |
| Hardness (Shore 00, 30 sec) | 32 | ASTM D2240 |
| Outgassing TML (weight %) | 0.3 | ASTM E595 |
| Outgassing CVCM (weight %) | 0.04 | ASTM E595 |
| Temperature Range | -40°C to 150°C | Laird Test Method |
| Rth @ 50 mils, 10 psi | 0.330 | ASTM D5470 (Modified) |
| Dielectric Constant @ 1 MHz | 9 | ASTM D150 |
| UL Flammability Rating | V-0 | UL 94 |
| Volume Resistivity | 1.06 x 10 ¹⁶ | ASTM D257 |

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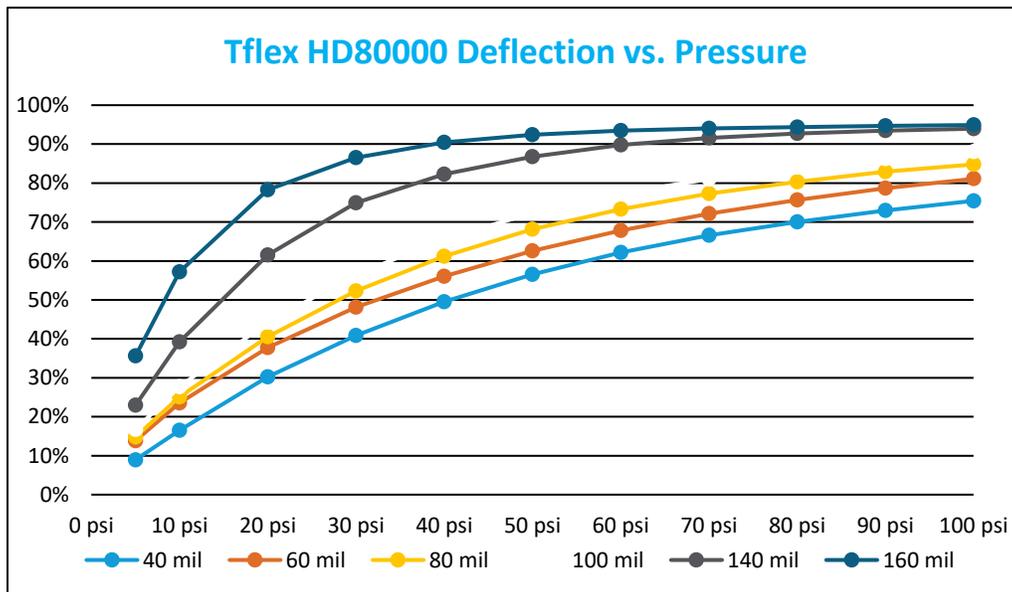
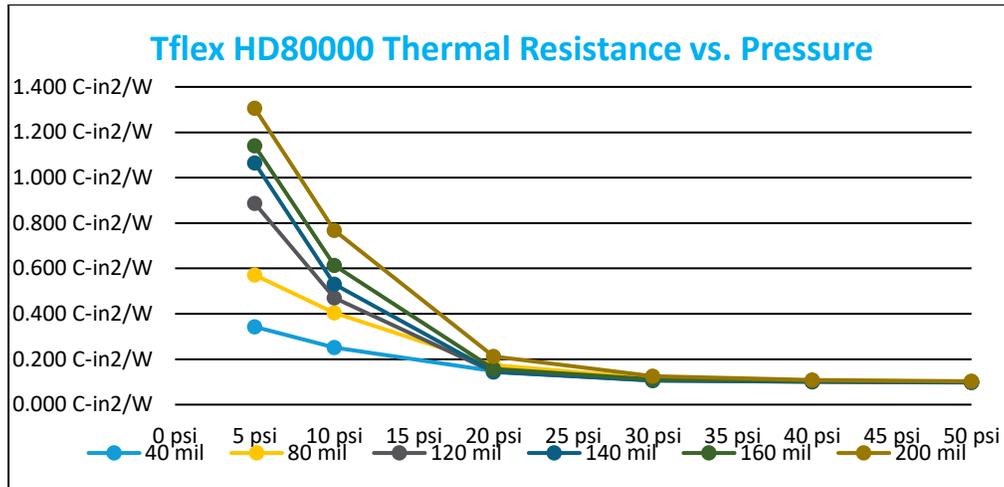
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AVAILABILITY

STANDARD THICKNESSES

- 1.0 mm (0.040") to 5.0 mm (0.200") thick material available in 0.25mm (0.010") increments
- Available in standard sheet sizes of 9" x 9" or custom die cut parts

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. HD8xxxx indicates Tflex HD80000 product line with thickness in microns

EXAMPLES:

- Tflex™ HD81000 = 1000 microns / 0.040" thick Tflex™ HD80000 material