



PRODUCT DESCRIPTION

Laird's Tflex™ HD90000 is the latest product in our High Deflection series. Tflex™ HD90000 combines 7.5 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.

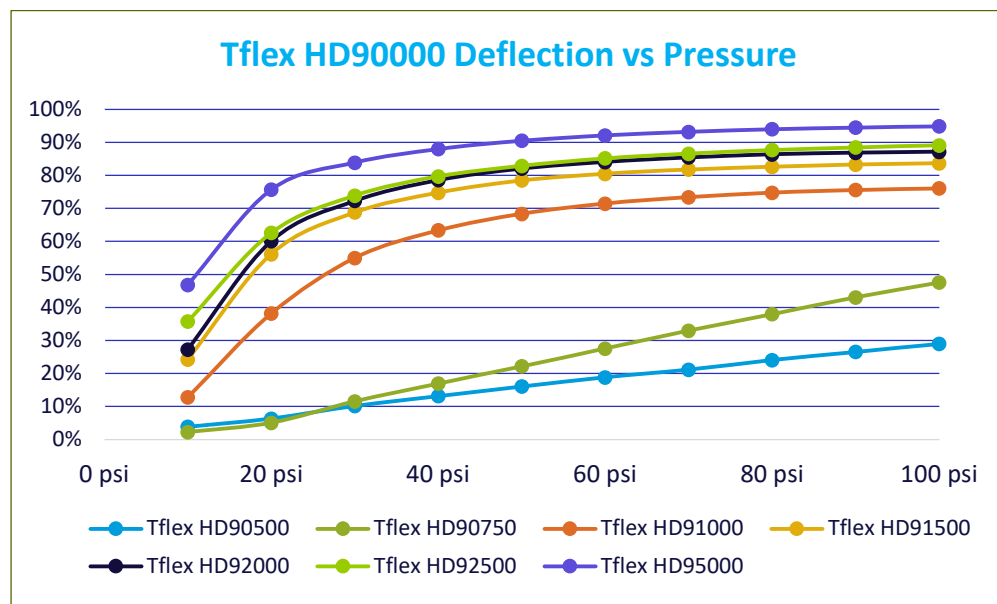
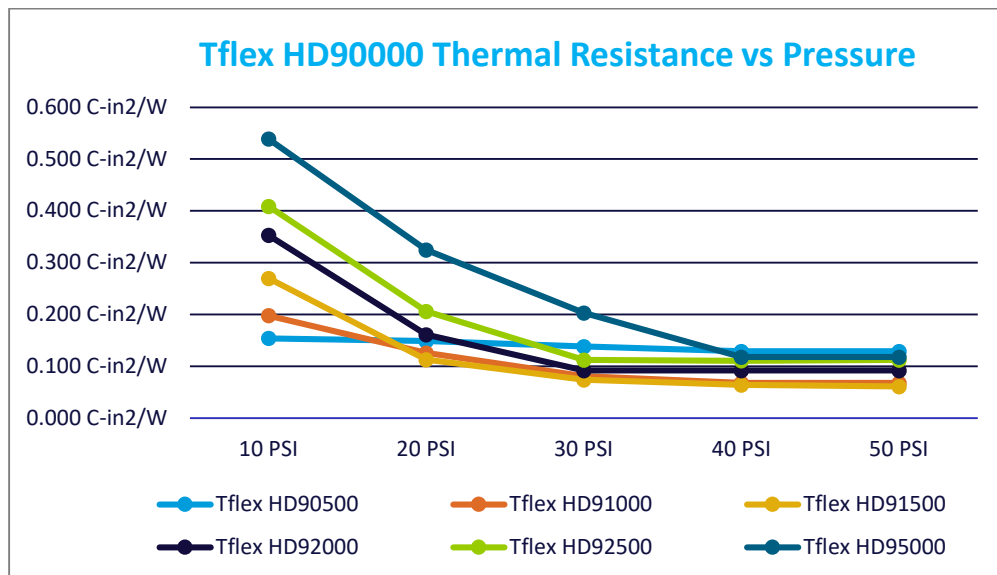
Tflex™ HD90000 is available in thickness from 0.020" (500 µm) to 0.200" (5000 µm).

FEATURES AND BENEFITS

- 7.5 W/mK thermal conductivity
- Low pressure versus deflection
- Excellent surface wetting for low contact resistance
- Minimizes board and component stress
- Low Outgassing
- Low D3-D20 (< 20ppm)
- Large tolerance applications
- 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	Grey	Visual
Thickness Range	0.020" (500 µm) - 0.200" (5000 µm)	N/A
Thermal Conductivity (W/mK)	7.5	Hot Disk
Density (g/cc)	3.5	Helium Pycnometer
Hardness (Shore 00)	500 and 750 µm: 45 1000 µm and up: 32	ASTM D2240
Outgassing TML (weight %)	0.17	ASTM E595
Outgassing CVCM (weight %)	0.01	ASTM E595
Temperature Range	-65°C to 125°C	Laird Test Method
Rth at 40 mils, 10 psi, 50° C	0.198°C-in ² /W	ASTM D5470
Dielectric Constant at 1 MHz	8.14	ASTM D150
UL Flammability Rating	V-0	UL 94
Volume Resistivity	8.73×10 ¹³ ohm-cm	ASTM D257



AVAILABILITY

STANDARD THICKNESSES

- 0.020" (500 μm) up to 0.200" (5000 μm) thick material available in 250 μm increments
- Available in standard sheet sizes of 18" x 18" (1000 μm and up only) and 9" x 9" or custom die cut parts.

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. HD90000 indicates Tflex™ HD90000 product line with thickness in microns

EXAMPLES:

- Tflex™ HD91000= 1000 μm (0.040") thick Tflex™ HD90000 material
- Tflex™ HD95000= 5000 μm (0.200") thick Tflex™ HD90000 material

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