



### Product Description

Laird Tflex HD400 is a 4.0 W/mK gap filling material in our high deflection line of products. Tflex HD400 is an excellent choice when wide manufacturing tolerances occur. These variable gaps can be filled with Tflex HD400 while generating minimal board and component stress. Laird's unique manufacturing capabilities, filler and resin knowledge result in this advanced product designed with customer applications in mind.

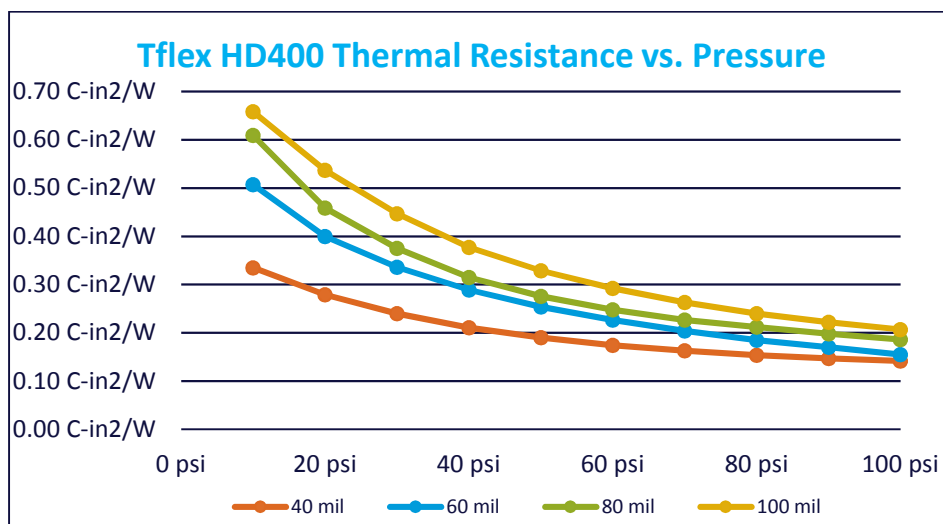
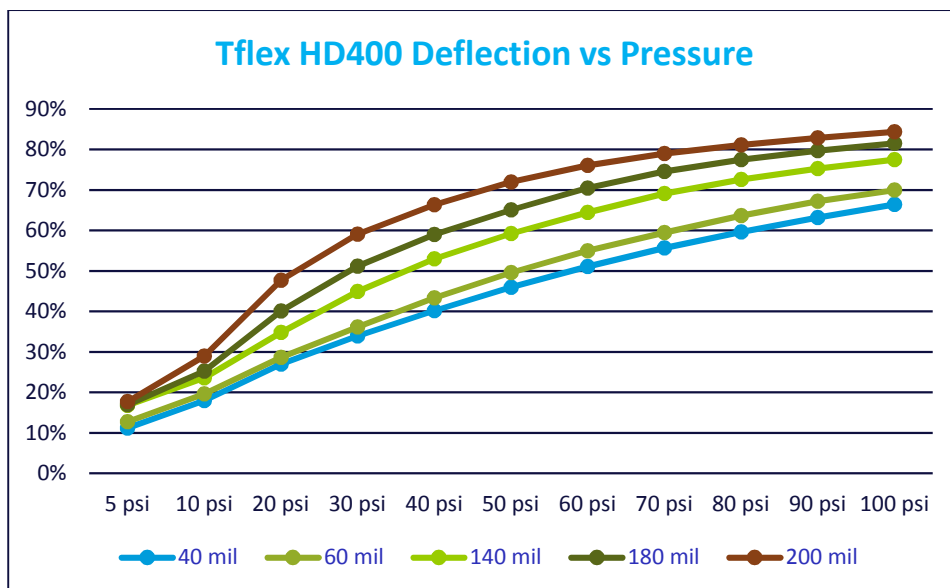
Tflex HD400 is provided in thickness from 0.5mm (.020") up to 5mm (0.200") in 0.25mm (.020") increments as standard. In addition, Laird can provide Tflex HD400 in multiple converted formats through approved converters and distribution networks.

### FEATURES AND BENEFITS

- 4.0 W/mK thermal conductivity
- Low pressure versus deflection
- 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
<b>Construction &amp; Composition</b>	Ceramic filled silicone sheet	N/A
<b>Color</b>	Blue	Visual
<b>Thickness Range</b>	0.5 mm (0.020") - 5.0mm (0.200")	N/A
<b>Thermal Conductivity (W/mK)</b>	4.0	ASTM D5470
<b>Density (g/cc)</b>	3.0	Helium Pycnometer
<b>Hardness (Shore 00)</b>	44	ASTM D2240
<b>Outgassing TML (weight %)</b>	0.22	ASTM E595
<b>Outgassing CVCM (weight %)</b>	0.04	ASTM E595
<b>Temperature Range</b>	-40°C to 200°C	Laird Test Method
<b>Rth@ 40 mils, 10 psi</b>	0.36°C-in <sup>2</sup> /W	ASTM D5470 (Modified)
<b>Dielectric Constant @ 1 MHz</b>	10.7	ASTM D150
<b>UL Flammability Rating</b>	V-0	UL 94
<b>Volume Resistivity</b>	2.8 x 10 <sup>14</sup>	ASTM D257



## AVAILABILITY

### STANDARD THICKNESSES

- 0.5 mm (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. HD4xxx indicates Tflex HD400 product line with thickness in mils (0.001")

### EXAMPLES:

- Tflex™ HD440 = 0.040" thick Tflex™ HD400 material
- Tflex™ HD4100DC1 = 0.10" thick Tflex™ HD400 material with DC1 option

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