
Chipsmall
深圳市津利帝科技有限公司
Geelead Technology Limited
Chipsmall
采购部

Smart Technology. Delivered.™

Tflex™ HD300 Series

Thermal Gap Filler

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
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–in2/W	ASTM D5470 (Modified)
Dielectric Constant @ 1 MHz	6.62	ASTM D150
UL Flammability Rating	V-0	UL-94
Volume Resistivity	$1.2\text{x } 10^{14}$	ASTM D257

Tflex^{TM} HD300 Series

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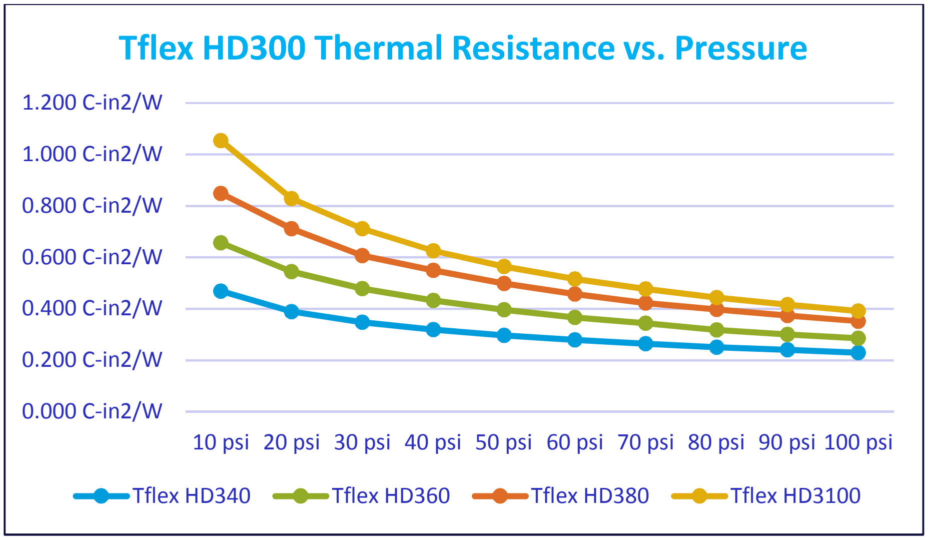

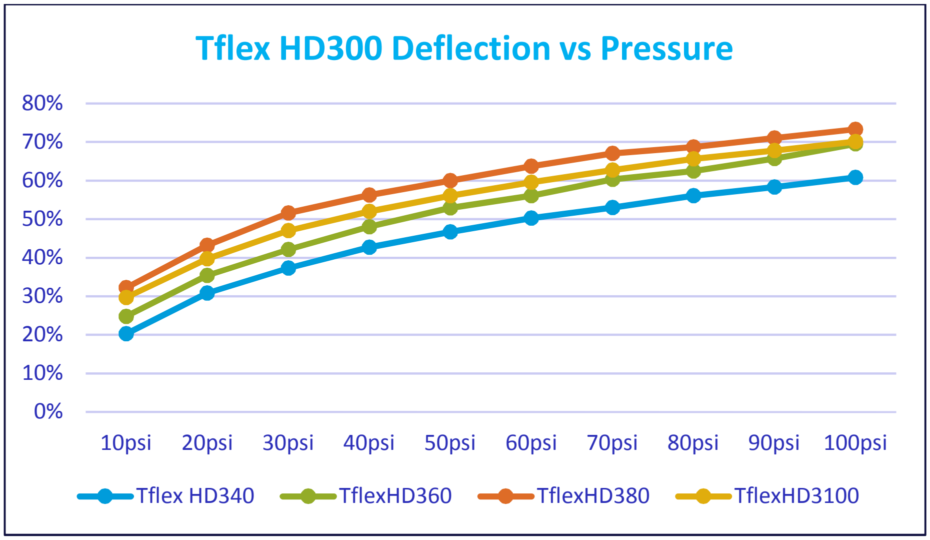

AVAILABILITY

STANDARD THICKNESSES

- 0.5mm (0.020") to 5.0mm (0.200") thick material available in 0.25mm (0.010") increments
- 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