

# 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<sup>™</sup> HD300 material exhibits excellent surface wetting characteristics and high deflection properties ensuring low contact resistances and providing an overall lower total thermal resistance.

Tflex<sup>TM</sup> 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<sup>TM</sup> 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**

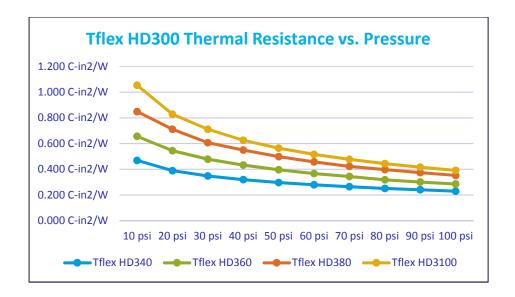
TYPICAL PROPERTIES	VALUE	TEST METHOD
Construction & Composition	Ceramic filled silicone sheet	N/A
Color	Pink	Visual
Thickness Range	0.50mm (0.020") 5.0mm (0.20")	N/A
Thermal Conductivity (W/mK)	2.7	ASTM D5470
Density (g/cc)	3.1	Helium Pycnometer
Hardness (Shore 00)	38	ASTM D2240
Outgassing TML (weight %)	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	1.2x 10 <sup>14</sup>	ASTM D257

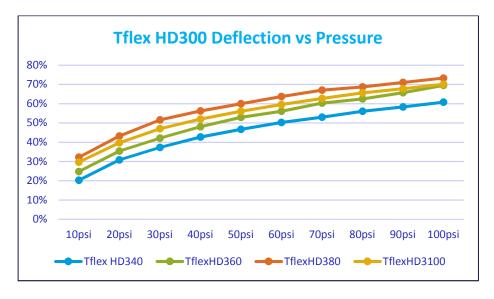
Americas: +1.866.928.8181 Europe: +49.(0).8031.2460.0 Asia: +86.755.2714.1166



## Tflex<sup>™</sup> HD300 Series

## **Thermal Gap Filler**





## **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

A15293-00 Tflex HD300 DS 071017

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies, are sold pursuant to the Laird Technologies, and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Technologies, Inc. are laird Technologies, the Laird Technologies, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.