



## Product Description

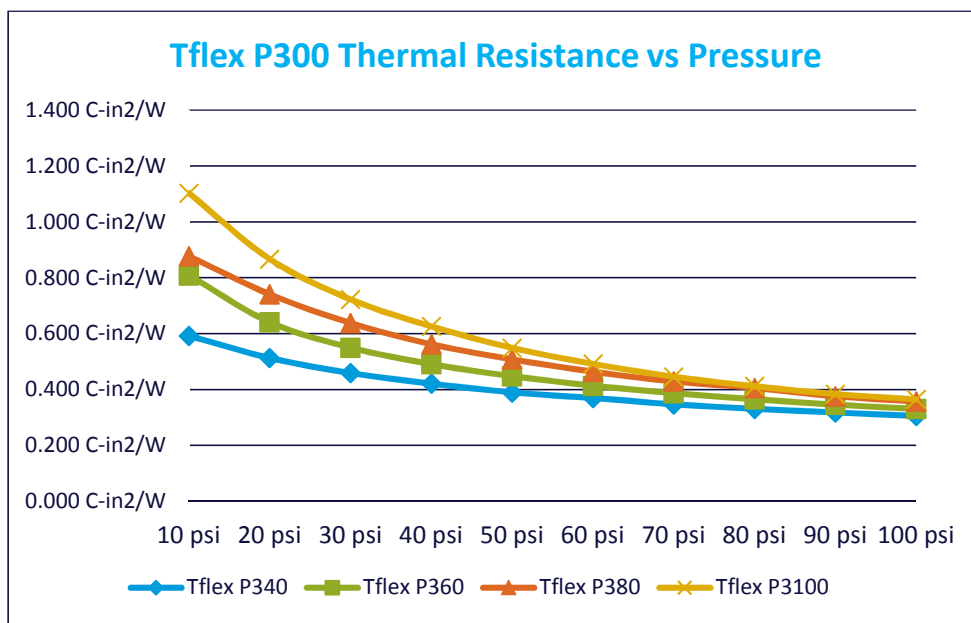
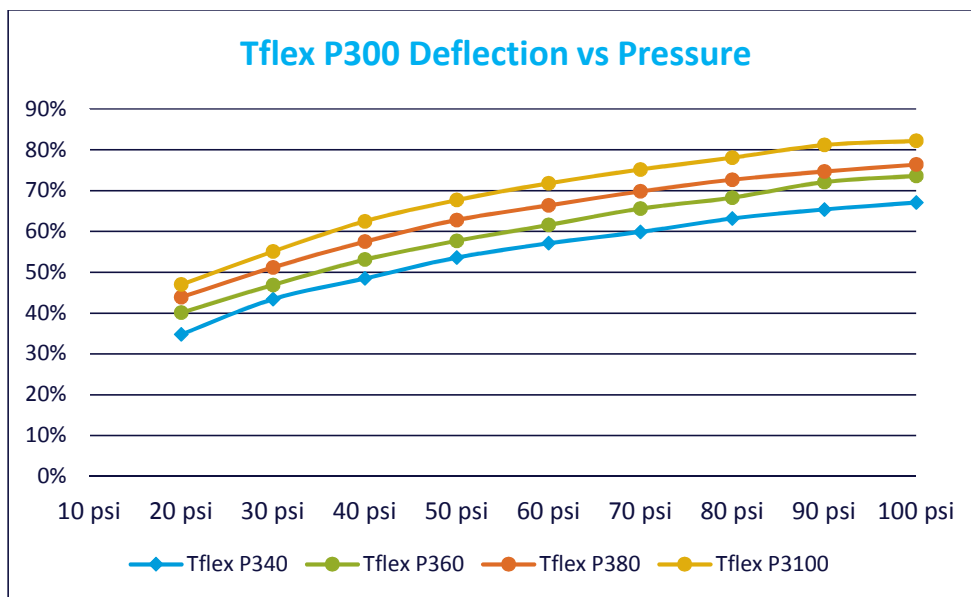
Laird Tflex® P300 is a soft and compliant gap filler with an integrated polyimide liner. Laird has leveraged its vast experience and knowledge in the development of thermally conductive materials to develop a soft and compliant gap filler that minimizes contact resistance and board level stresses. In conjunction with these key traits Laird understands that not all applications are the same. As a result, Tflex P300 comes with a unique and integrated polyimide film on one side. This liner provides numerous application benefits like electrical isolation, placement ease during assembly, and tear resistance for applications that require shear.

## FEATURES AND BENEFITS

- Compliant nature minimizes contact resistance
- Integrated polyimide film provides dielectric strength
- Resistance to burrs and mechanical forces
- Resistant to shear forces.
- Thermal Conductivity of 3 W/mK
- Contrasting color allows integration with vision system
- Low silicone bleed

## SPECIFICATIONS

TYPICAL PROPERTIES	VALUE	TEST METHOD
<b>Construction &amp; Composition</b>	Polyimide lined elastomer	N/A
<b>Color</b>	Purple	Visual
<b>Thickness Range</b>	0.50mm (0.020") 5.0mm (0.20")	N/A
<b>Thickness Tolerance</b>	+/- 10%	N/A
<b>Thermal Conductivity (W/mK)</b>	3.0	ASTM D5470
<b>Density (g/cc)</b>	3.10	Helium Pycnometer
<b>Hardness (Shore 00)</b>	30	ASTM D2240
<b>Outgassing TML (weight %)</b>	0.2	ASTM E595
<b>Outgassing CVCN (weight %)</b>	0.05	ASTM E595
<b>Temperature Range</b>	-40°C to 125°C	Laird Test Method
<b>Rth@ 40 mils, 10 psi</b>	0.592 °C-in <sup>2</sup> /W	ASTM D5470 (Modified)
<b>Dielectric Constant @ 1 MHz</b>	4.6	ASTM D150
<b>UL Flammability Rating</b>	V-0	UL-94
<b>Volume Resistivity</b>	2 x 10 <sup>14</sup> ohm-cm	ASTM D257
<b>Breakdown Voltage</b>	>5KV	ASTM D149



## 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

### PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. P3xxx indicates Tflex P300 product line with thickness in mils (0.001")

### EXAMPLES:

- Tflex™ P340 = 0.040" thick Tflex™ P300 material

A17801-00 Tflex P300 DS 110317