



# Tflex™ P300 Series Polyimide Lined Gap Filler



## **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

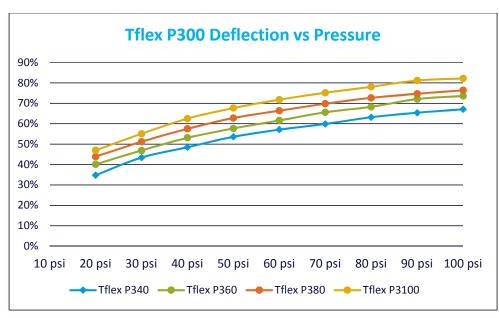
## **SPECIFICATIONS**

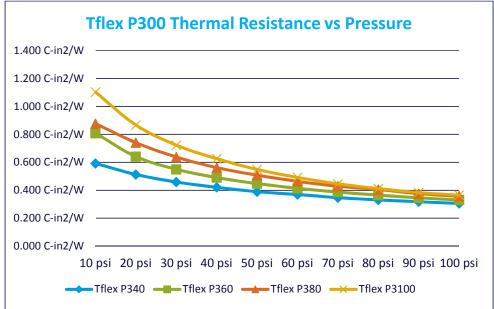
TYPICAL PROPERTIES	VALUE	TEST METHOD
Construction & Composition	Polyimide lined elastomer	N/A
Color	Purple	Visual
Thickness Range	0.50mm (0.020") 5.0mm (0.20")	N/A
Thickness Tolerance	+/- 10%	N/A
Thermal Conductivity (W/mK)	3.0	ASTM D5470
Density (g/cc)	3.10	Helium Pycnometer
Hardness (Shore 00)	30	ASTM D2240
Outgassing TML (weight %)	0.2	ASTM E595
Outgassing CVCM (weight %)	0.05	ASTM E595
Temperature Range	-40°C to 125°C	Laird Test Method
Rth@ 40 mils, 10 psi	0.592 °C-in2/W	ASTM D5470 (Modified)
Dielectric Constant @ 1 MHz	4.6	ASTM D150
UL Flammability Rating	V-0	UL-94
Volume Resistivity	2 x 10 <sup>^14</sup> ohm-cm	ASTM D257
Breakdown Voltage	>5KV	ASTM D149

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# Tflex<sup>TM</sup> P300 Series Polyimide Lined 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

### **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

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