



### 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

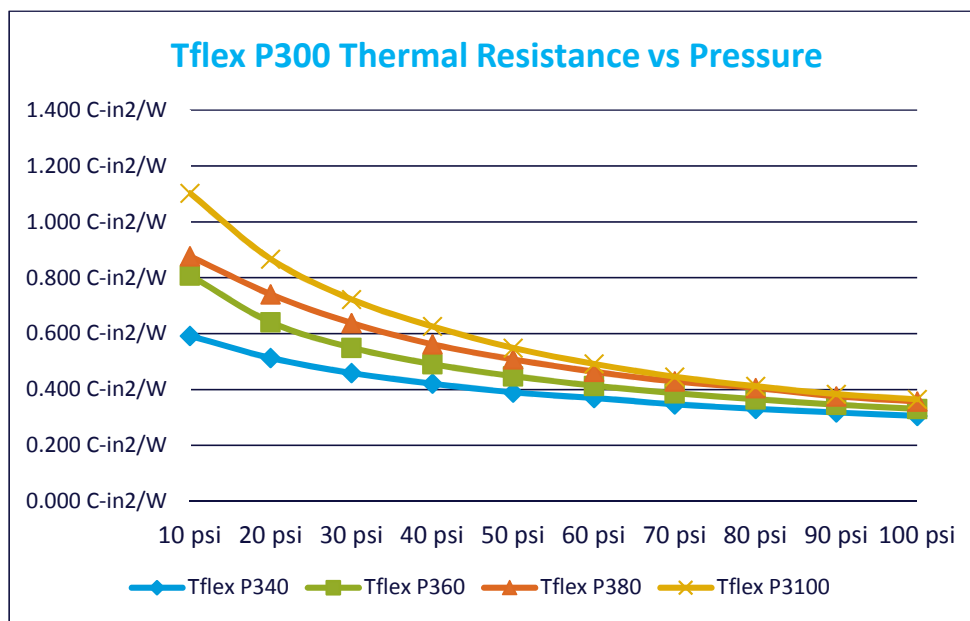
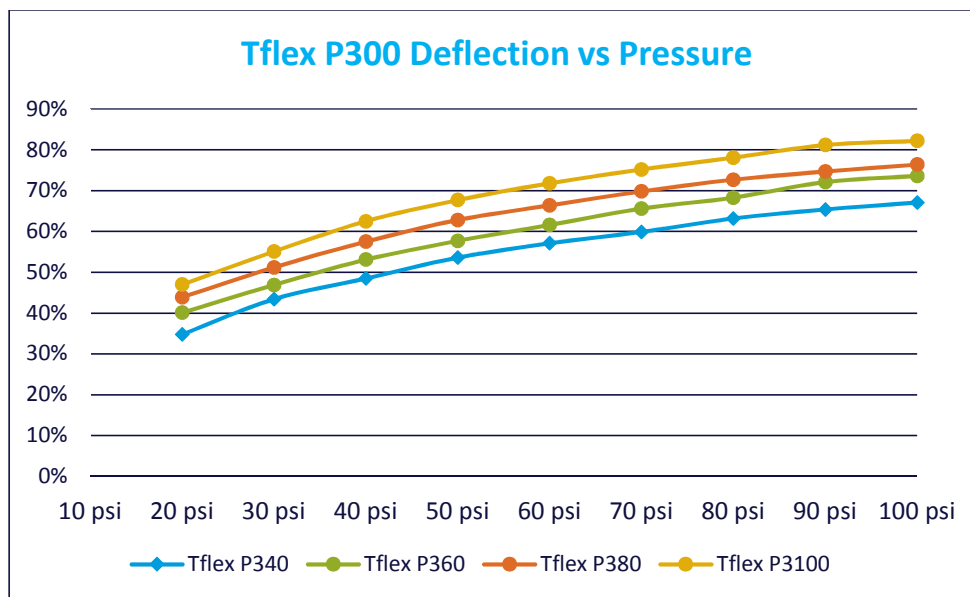
| TYPICAL PROPERTIES          | VALUE                         | TEST METHOD           |
|-----------------------------|-------------------------------|-----------------------|
| Construction & Composition  | Polyimide lined elastomer     | N/A                   |
| Color                       | Purple                        | 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-in <sup>2</sup> /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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## 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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