

Tflex™ P100 Series Tgard Lined Gap Filler



Product Description

Laird Tflex P100 is a soft and compliant gap filler with an integrated Tgard liner and adds a complementing performance level to the P series product line from Laird. 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 P100 comes with a unique Tgard liner on one side. This liner provides numerous application benefits like electrical isolation, placement ease during assembly, tear resistance for applications that require shear, to name a few. Tflex P100 will be offered in thicknesses that range from .5mm (.020") up to 5mm (.200").

FEATURES AND BENEFITS

- Compliant nature minimizes contact resistance
- Integrated Tgard liner provides dielectric strength
- Resistance to burrs and mechanical forces
- Resistant to shear forces.
- Contrasting color allows integration with vision system

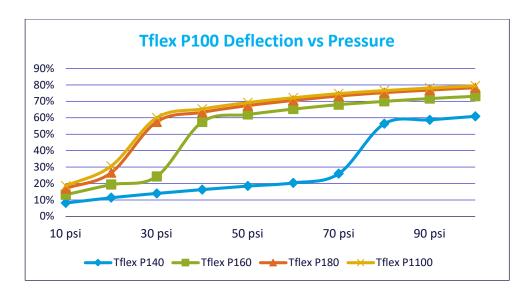
SPECIFICATIONS

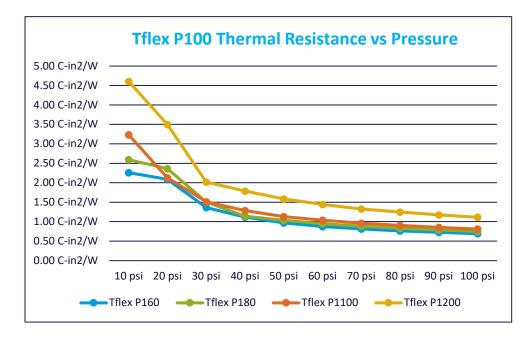
| PROPERTIES | TYPICAL VALUE | TEST METHOD |
|-----------------------------|-------------------------------|-------------------|
| Construction & Composition | Tgard lined elastomer | N/A |
| Color | Yellow | Visual |
| Thickness Range | 0.50mm (0.020") 5.0mm (0.20") | N/A |
| Thickness Tolerance | +/- 10% | N/A |
| Thermal Conductivity (W/mK) | 1.2 | ASTM D5470 |
| Density (g/cc) | 2.3 | Helium Pycnometer |
| Hardness (Shore 00) | 13 | ASTM D2240 |
| Outgassing TML (weight %) | 0.62 | ASTM E595 |
| Outgassing CVCM (weight %) | 0.11 | ASTM E595 |
| Temperature Range | -40°C to 200°C | Laird Test Method |
| Rth@ 40 mils, 10 psi | 1.50°C-in2/W | ASTM D5470 |
| | | (Modified) |
| Dielectric Constant @ 1 MHz | 7.45 | ASTM D150 |
| UL Flammability Rating | V-0 | UL-94 |
| Volume Resistivity | 1.3 x 10 ¹² | ASTM D257 |
| Breakdown Voltage | >9kV | 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. P1xxx indicates Tflex P100 product line with thickness in mils (0.001") EXAMPLES:

Tflex™ P140 = 0.040" thick Tflex™ P100 material

A17801-00 Tflex P300 DS 08022021

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