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 %)	0.32	ASTM E595
Outgassing CVCM (weight %)	0.05	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	1.3×10^{12}	ASTM D257
Breakdown Voltage	>9kV	ASTM D149

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Asia: +86.755.2714.1166

www.lairdtech.com

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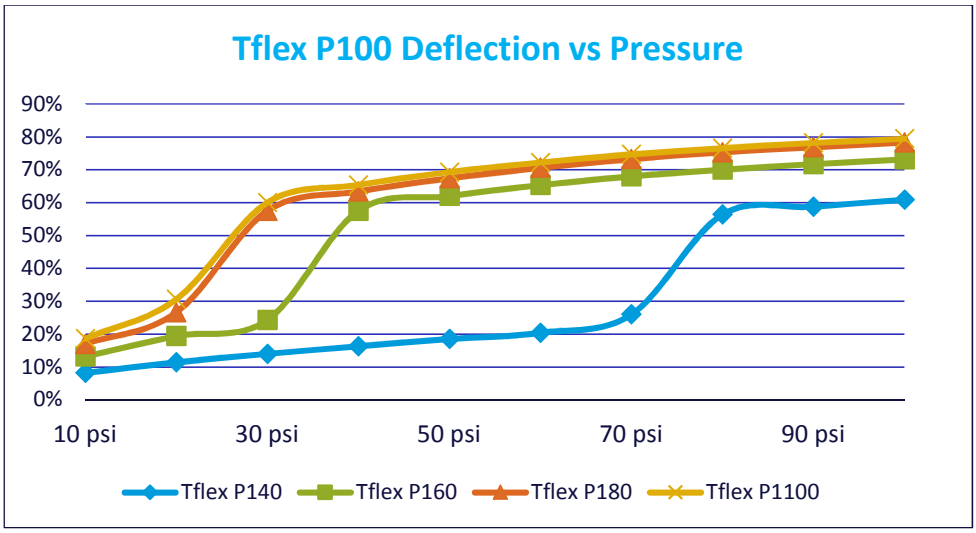

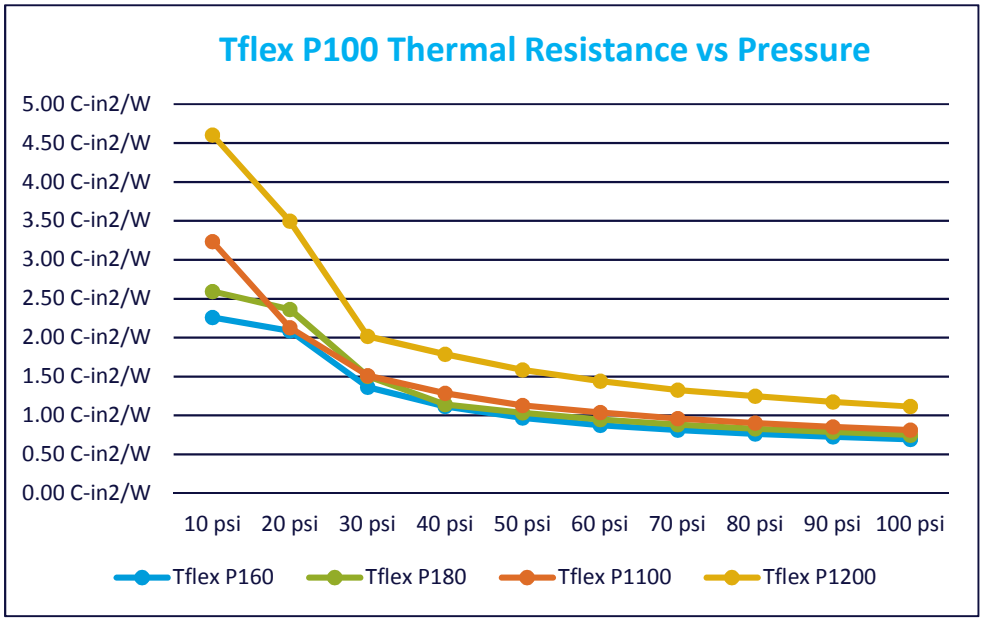

AVAILABILITY

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™ P140 = 0.040” thick Tflex™ P100 material

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Laird Performance Materials:

A17712-10 A17712-11 A17712-12 A17712-13 A17712-14 A17712-15 A17712-16 A17712-17 A17712-18 A17712-19 A17712-20 A17733-10 A17733-11 A17733-12 A17733-13 A17733-14 A17733-15 A17733-16 A17733-17 A17733-18 A17733-19 A17733-20