



PRODUCT DESCRIPTION

Tflex HP34 is a new development product within Laird's high-performance material portfolio. The high performing gap filler consists of graphite fibers expertly aligned to provide a very high bulk thermal conductivity. In addition to the high bulk T_c, Tflex HP34 is uniquely designed to maintain its thermal performance within an application under increased pressure. Best performance will occur at lower pressures, 10-30 psi.

FEATURES AND BENEFITS

- 34 W/mK bulk thermal conductivity
- Silicone Free formulation
- Maintains thermal performance under increased pressure
- Low contact resistance with mating surfaces
- Environmentally friendly solution that meets RoHS and REACH

TYPICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	TEST METHOD
Construction & Composition	Aligned Graphite	N/A
Color	Grey	Visual
Thickness Range	1mm - 5mm	N/A
Thickness Tolerance	+/- 10%	N/A
Bulk Thermal Conductivity	34 W/mK	ASTM D5470
Density	2.3 g/cc	Helium Pycnometer
Thermal Resistance (1.5mm) @ 30% deflection, 50 °C	0.589 °C*cm ² /W (0.096 °C*in ² /W)	ASTM D5470
Temperature Range	-40° C to 125° C	Laird Test Method
Hardness Shore 00 (3 second)	50	ASTM D2240
Hardness Shore 00 (30 second)	20	ASTM D2240
Volume Resistivity (Ω cm)	10 Ω-cm	ASTM D991
UL Flammability Rating	V-0 (Pending)	UL 94

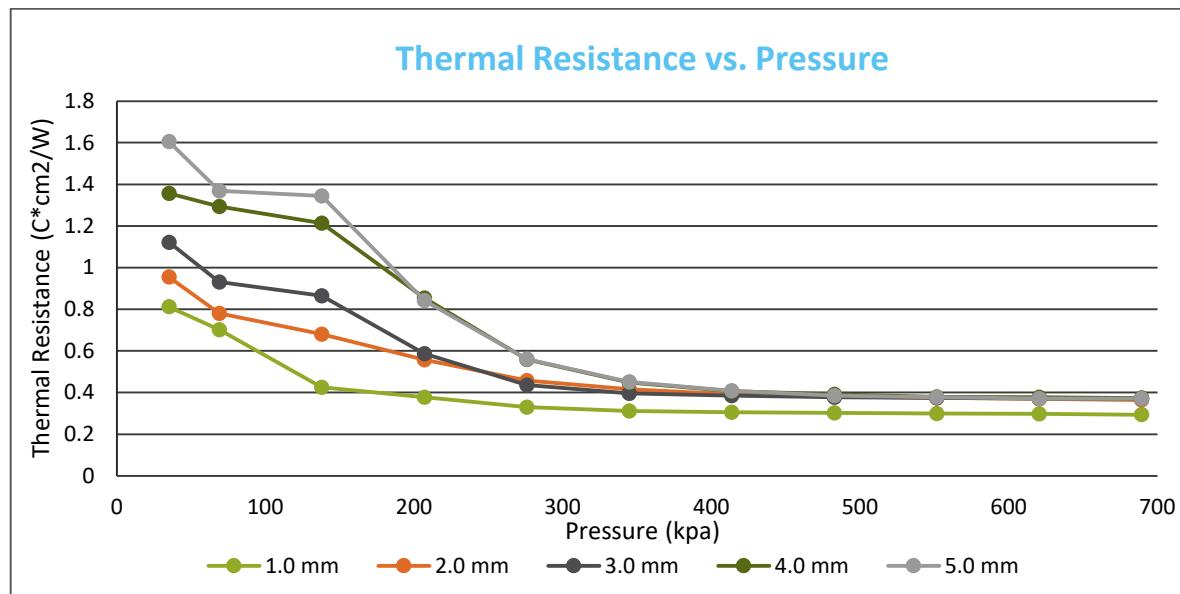
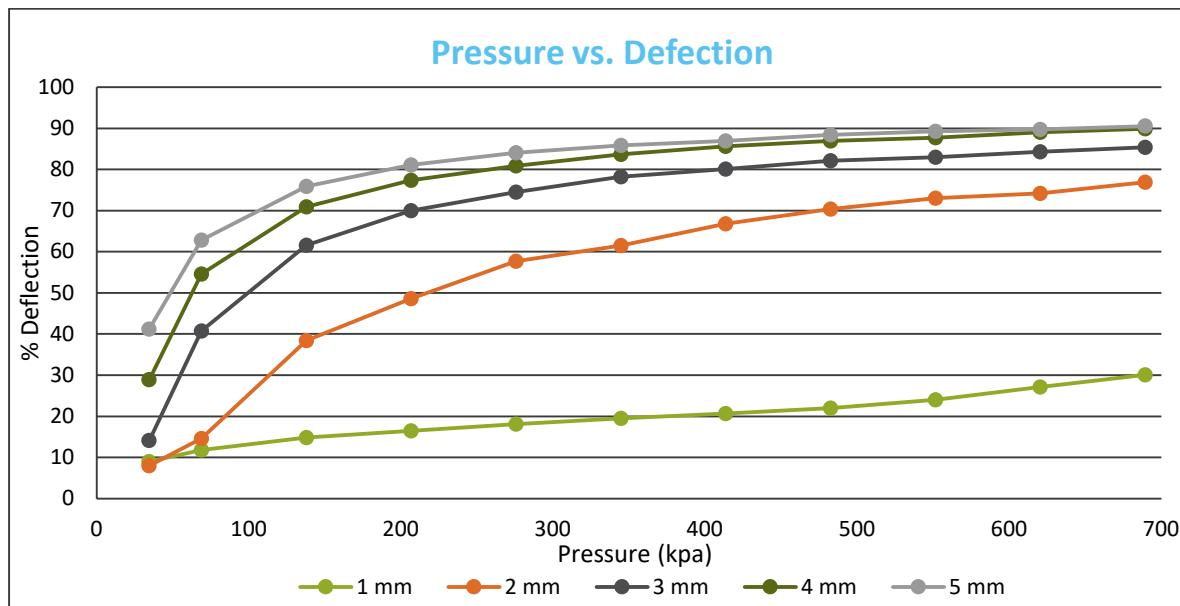


USA: +1.866.928.8181

Europe: +49.8031.24600

Asia: +86.755.2714.1166

www.laird.com



AVAILABILITY

- 1 mm (0.040") to 5.0 mm (0.200") thick material available in 0.25mm (0.010") increments
- Available in standard sheet sizes of 3"x 5" (76.2mm x 127mm) or custom die cut parts

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. Tflex HP34 is the material name, followed by the thickness. EX: Tflex™ HP34,1.00 = 1.00mm thick Tflex HP34 material