

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 Tc, 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	UL 94

*Due to the unique structure of this material, the surface texture and appearance may look different than traditional gap filler pads.

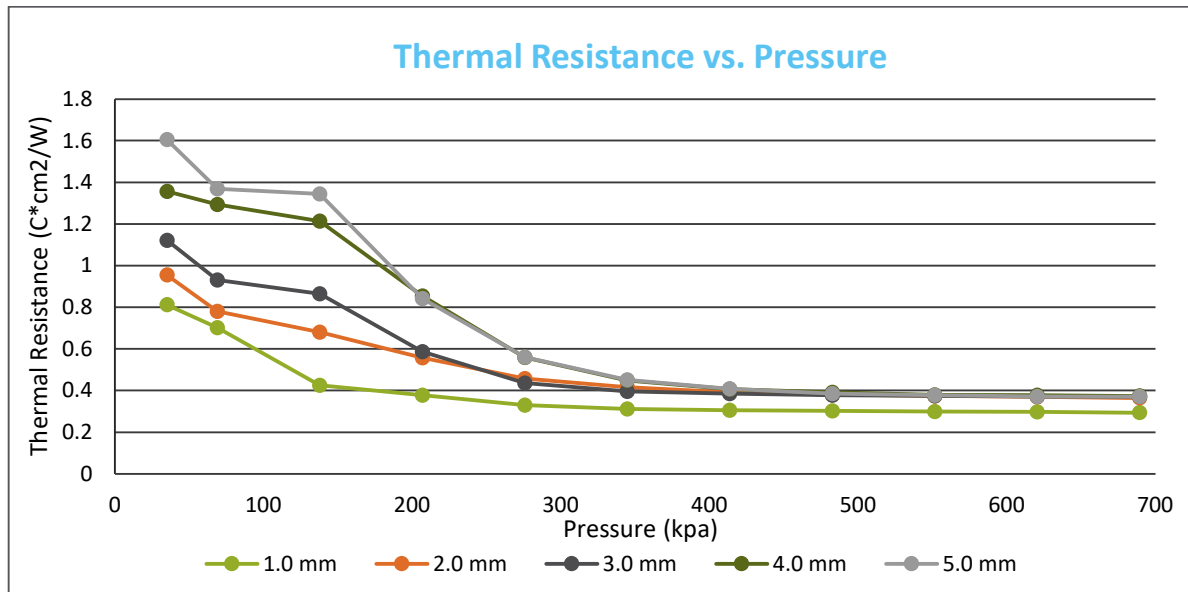
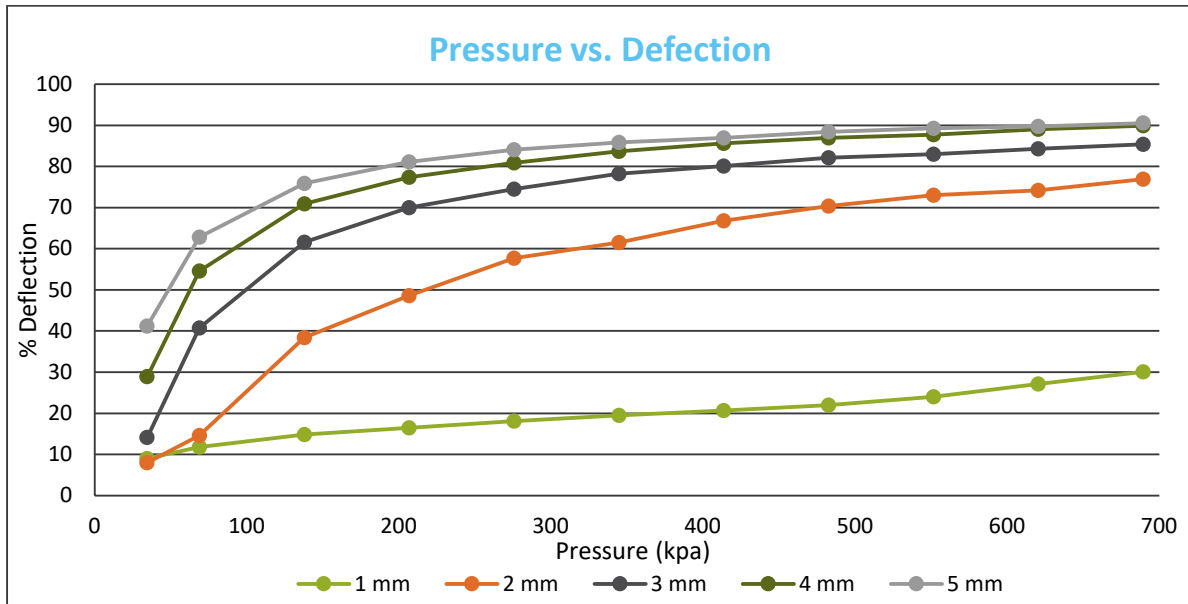


USA: +1.866.928.8181

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

A18332-00 Tflex HP34 Data Sheet 6-8-21

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2021 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.