



Innovative **Technology**  
for a **Connected** World

# Tflex™ XS400 Series Thermal Gap Filler



## COMPLIANT 2.0 W/mK THERMALLY CONDUCTIVE GAP FILLER

Tflex™ XS400 is a compliant elastomer gap filler designed to provide moderate thermal performance. This soft interface pad conforms well with minimal pressure, resulting in little or no stress on mating parts.

Tflex™ XS400 is naturally tacky, no adhesive coating is required. Due to its TG liner on the other side, Tflex™ XS400 is electrically insulating, stable from -40°C to 160°C and is certified to UL 94V0 flammability rating.

## FEATURES AND BENEFITS

- Thermal Conductivity 2.0 W/mK
- Highly compliant
- Low thermal resistance even at low pressure
- Available in thicknesses from 0.020-inch (0.25mm) through 0.200-inch (5.0mm) in 0.010-inch increments
- Naturally tacky for easy assembly

## APPLICATIONS

- Telecommunications
- Computer and peripherals
- Power conversion
- Between heat generating components and heatsinks

**global solutions: local support™**

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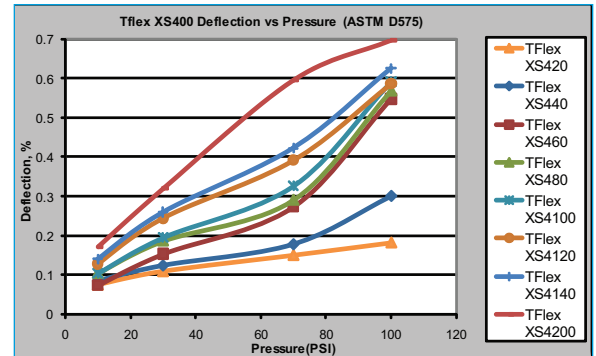
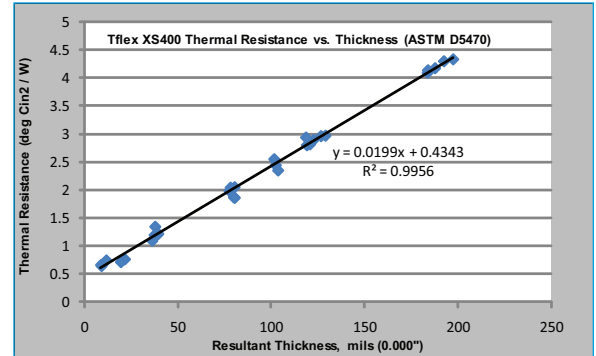
[www.lairdtech.com/thermal](http://www.lairdtech.com/thermal)

# Tflex™ XS400 Series Thermal Gap Filler

## Tflex™ XS400 TYPICAL PROPERTIES

|                                     | Tflex XS400™                          | TEST METHOD       |
|-------------------------------------|---------------------------------------|-------------------|
| Construction                        | Soft gap filler with TG liner         | NA                |
| Color                               | Dark grey / Red Liner                 | visual            |
| Thermal Conductivity                | 2.0 W/mK                              | ASTM D5470        |
| Hardness (Shore 00)                 | 3 secs: 30 to 35<br>30 secs: 22 to 27 | ASTM D2240        |
| Specific Gravity                    | 40 mils - 2.02;<br>120 mils - 1.96    | Helium Pycnometer |
| Thickness Range                     | 0.020 - 0.200 in<br>(0.5 - 5.1 mm)    |                   |
| Thickness Tolerance                 | +/- 10%                               |                   |
| UL Flammability Rating              | V0 (pending)                          | UL 94             |
| Temperature Range                   | -40°C to 160°C                        | NA                |
| Outgassing TML                      | 0.32%                                 | ASTM E595         |
| Outgassing CVCM                     | 0.08%                                 | ASTM E595         |
| Coefficient Thermal Expansion (CTE) | pending                               | IPC-TM-650 2.4.24 |

**Notes:** Resultant thickness is the final gap thickness of the application.



## STANDARD THICKNESSES

Standard thickness is 0.020-inch (0.25 mm) through 0.200-inch (5.0 mm) and available in 0.010-inch (0.25 mm) increments.

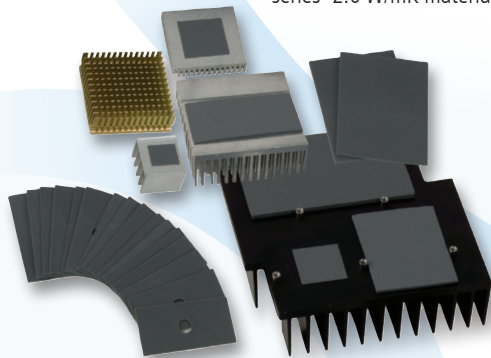
## MATERIAL NAME AND THICKNESS

Tflex™ indicates Laird Technologies' brand thermally conductive elastomeric gap filler product. XS4xxx indicates 'XS400 series' 2.0 W/mK material, and xxx indicates thickness in mils (0.001-inches).

### Examples:

Tflex™ XS4120 = 0.120-inch thick material

Tflex™ XS450 = 0.050-inch thick material



THR-DS-Tflex-XS400 0910

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