HIGHEST THERMAL CONDUCTIVITY COMPLIANT GAP FILLER

Tflex™ 700 is a 5 W/mK soft gap filler thermal interface material with great thermal performance and high compliancy. The soft interface pad conforms to component topography, resulting in little or no stress on the components and mating chassis or parts.

Unique silicone and ceramic filler technology allows a combination of high compliancy and high thermal performance. Tflex™ 700 is stable from -45°C thru 200°C and meets UL 94V0 flame rating. Naturally tacky, it requires no additional adhesive coating which inhibits thermal performance.

FEATURES AND BENEFITS

- Thermal conductivity 5.0 W/mK
- Highly compliant
- Low thermal resistance even at low pressure
- Available in thicknesses from 0.020” thru 0.200” (0.5mm thru 5.0mm)
- Naturally tacky for adhesion during assembly and transport

APPLICATIONS

- Cooling components to chassis, frame or other mating components
- Mass storage devices
- Heat pipe thermal solutions for notebook computers
- Automotive engine control
- Telecommunication hardware
- LED solid state lighting
- Power electronics
- Flat panel displays
- Audio and video components
- Computer servers and other IT infrastructure
- GPS navigation and other portable devices

Farnell Description : Laird-PN:  
Tflex 720 9x9in, thickness = 0.5 mm A15196-02 
Tflex 740 9x9in, thickness = 1.0 mm A15896-04 
Tflex 780 9x9in, thickness = 2.0 mm A15796-26 
Tflex 7160 9x9in, thickness = 4.0 mm A15896-31 
Tflex 7200 9x9in, thickness = 5.0 mm A15796-28
### Tflex™ 700 Series

**Thermal Gap Filler**

<table>
<thead>
<tr>
<th><strong>Tflex™ 700</strong></th>
<th><strong>TEST METHOD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Filled Silicone Sheet</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Grey</td>
</tr>
<tr>
<td>Thermal Conductivity (W/mK)</td>
<td>5.0</td>
</tr>
<tr>
<td>Hardness (Shore 00)</td>
<td>66; 3</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.73</td>
</tr>
<tr>
<td>Thickness Range</td>
<td>0.020” - .200” (0.5 - 5.0mm)</td>
</tr>
<tr>
<td>Thickness Tolerance</td>
<td>±10%</td>
</tr>
<tr>
<td>UL Flammability Rating</td>
<td>94 V0</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-45°C to 200°C</td>
</tr>
<tr>
<td>Volume Resistivity (ohm-cm)</td>
<td>$1 \times 10^{13}$</td>
</tr>
<tr>
<td>Outgassing TML</td>
<td>1.0%</td>
</tr>
<tr>
<td>Outgassing CVCM</td>
<td>0.13%</td>
</tr>
</tbody>
</table>

### STANDARD THICKNESSES

Standard thickness 0.020” (0.5mm) through 0.200” (5.0mm) available in 0.010” (0.25mm) increments.

### MATERIAL NAME AND THICKNESS

Tflex™ - indicates elastomeric gap filler product line.

7XXX - indicates Tflex™ 700 product line and thickness in mils (0.001-inches).

-DC1 - one side tacky; default is both sides tacky.

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.