**Tflex™ 700 Series**

**Thermal Gap Filler**

**HIGH 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 electrically insulating, it is stable from -45°C thru 200°C and meets UL 94V0 flame rating. Naturally tacky, it requires no additional adhesive coating to inhibit thermal performance.

**FEATURES AND BENEFITS**

- Thermal conductivity 5.0 W/mK
- Highly compliant
- Lowest 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

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**global solutions: local support**

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**Tflex™ 700 TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Tflex 700™</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Filled silicone sheet</td>
<td>NA</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Grey</td>
<td>Visual</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>5.0 W/mK</td>
<td>Hot Disk™</td>
</tr>
<tr>
<td>Hardness (Shore 00)</td>
<td>50</td>
<td>ASTM D2240</td>
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<tr>
<td>Specific Gravity</td>
<td>1.73</td>
<td>Helium Pycnometer</td>
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<tr>
<td>Thickness Range</td>
<td>0.020” - .200” (0.5 - 5.0mm)</td>
<td></td>
</tr>
<tr>
<td>Thickness Tolerance</td>
<td>±10%</td>
<td></td>
</tr>
<tr>
<td>UL Flammability Rating</td>
<td>94 V0</td>
<td>File E180840</td>
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<tr>
<td>Temperature Range</td>
<td>-45°C to 200°C</td>
<td>See reliability report</td>
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<tr>
<td>Volume Resistance</td>
<td>$1 \times 10^{13}$ ohm-cm</td>
<td>ASTM D257</td>
</tr>
<tr>
<td>Outgassing TML</td>
<td>1.0%</td>
<td>ASTM E595</td>
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<tr>
<td>Outgassing CVCM</td>
<td>0.13%</td>
<td>ASTM E595</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.