Compatherm® Pad 9472 is high conformable and thermal performance pad material. It has high thermal conductivity at 7 W/mK, and stress control at over 50% deflection. It can be used for applications where large tolerance differences create the need for compression of the interface material beyond 50% of its original thickness.

Compatherm® Pad 9472 is naturally tacky on both sides, requiring no adhesive coating to inhibit thermal performance. It can be coated to single side tacky to allow easy material handling and installation.

**FEATURES AND BENEFITS**

- 7 W/mK thermal conductivity
- Soft and high compressibility for low stress applications
- Naturally tacky or without tackiness on the carrier side
- Available in thickness from 1 mm to 5mm

**TYPICAL MATERIAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST STANDARD</th>
<th>UNIT</th>
<th>9472</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Visual</td>
<td></td>
<td>Light Grey</td>
</tr>
<tr>
<td>Thickness[^1]</td>
<td>ASTM D374</td>
<td>mm</td>
<td>1.5</td>
</tr>
<tr>
<td>Hardness[^2]</td>
<td>ASTM D2240</td>
<td>Shore00</td>
<td>20</td>
</tr>
<tr>
<td>Density</td>
<td>Helium Pyncometer</td>
<td>g/cm³</td>
<td>2.55</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>Hot Disk</td>
<td>W/mK</td>
<td>7</td>
</tr>
<tr>
<td>Dielectric Breakdown Voltage[^3]</td>
<td>ASTM D149</td>
<td>VAC/mm</td>
<td>1500</td>
</tr>
<tr>
<td>Volume Resistance</td>
<td>ASTM D257</td>
<td></td>
<td>6.7*10[^12]</td>
</tr>
<tr>
<td>Dielectric Constant @ 1MHZ</td>
<td>ASTM D150</td>
<td></td>
<td>6.4</td>
</tr>
<tr>
<td>Outgassing, TML</td>
<td>ASTM E595</td>
<td></td>
<td>TBD</td>
</tr>
<tr>
<td>Outgassing, CVCM</td>
<td>ASTM E595</td>
<td></td>
<td>TBD</td>
</tr>
<tr>
<td>Flammability[^4]</td>
<td>UL94</td>
<td>VO</td>
<td></td>
</tr>
</tbody>
</table>

[^1]: Thickness tolerance, ±10% mm @ nominal thickness greater than 1mm; ± 0.1mm @ nominal thickness less than 1 mm.
[^2]: Thirty second delay.
[^3]: Measured on 1 mm thickness @20 mA
[^4]: Flame rating valid for 0.25 thick sample sandwiched between a PCB and an aluminum plate

**APPLICATIONS**

- Cooling components to chassis, frame, or other mating components
- Memory modules
- Home and small office network equipment
- Mass storage devices
- Automotive electronics
- Telecommunication hardware
- Radios
- LED solid state lighting
- Power electronics
- LCD and PDP flat panel
- Set top boxes

Please Note:
Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.
**DESIGN NOTES**

Due to material low hardness, it can be used in large tolerance applications up to 50% of compression with low stress. It is recommended to apply pressure slowly in assembly to achieve better interface contact and lower stress. Product flows easily on a wet interface during compression which results in low thermal resistance.

A compression degree of 70% is possible to use, but above that level a thinner gap filler pad is recommended. Excessive compression may result in silicone oil bleeding. It is also recommended to use one and the same compression degree over the whole surface for the same reason.

**ORDERING COMPATHERM®**

Compatherm® materials are typically cut into custom shapes based on the application requirements. Modus stocks the full line of materials and can provide cut piece and kit prices based on your unique application. Cut pieces can be delivered kiss cut to a liner or through cut.

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>SHEET SIZE</th>
<th>THERMAL RATING</th>
<th>NOLATO STYLE #</th>
<th>MODUS PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5912</td>
</tr>
<tr>
<td>1.5MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5909</td>
</tr>
<tr>
<td>2MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5908</td>
</tr>
<tr>
<td>2.5MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5910</td>
</tr>
<tr>
<td>3MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5653</td>
</tr>
<tr>
<td>4MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5654</td>
</tr>
<tr>
<td>5MM</td>
<td>200MM x 200MM</td>
<td>7 W/mK</td>
<td>9472</td>
<td>TM-280-5655</td>
</tr>
</tbody>
</table>

**APPLICATION PROCEDURE**

- Remove the top blue liner from the top surface of the sheet.
- Remove the cut part from the bottom blue liner.
- Place the part on the desired surface of heat sink, heat spreader or component.
- Compatherm’s naturally tacky surface will adhere to the surface without having to apply excess pressure.
- Compatherm should not be removed and reused once it’s been applied to a surface.

**CUSTOMERS WHO USE COMPATHERM® MAY ALSO BE INTERESTED IN:**

**EMI SHIELDING**

- gap filler
- thermal material
- thermal interface materials
- thermal putty
- thermal conductive pad
- gapfiller
- thermal gap pad
- thermal gap filler
- thermal interface pad
- thermal materials
- thermal silicone

**CUSTOMERS ALSO SEARCHED:**

- heat transfer pad
- thermal interface pad
- thermally conductive pad
- silicone gap filler
- conductive pads
- thermal pad material
- silicone thermal pad
- thermally conductive rubber
- thermal conductive pads
- what is a thermal pad

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We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer who converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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