The 2.5 W/mK Nolato Compatherm® Thermal Interface Material 9421 is a performance product designed for demanding applications requiring high thermal conductivity in a very soft viscoelastic material.

Compatherm® Thermal Interface Material is naturally tacky on both sides, but can be coated on one side to remove the natural tackiness if needed.

**FEATURES AND BENEFITS**

- 2.5 W/mK thermal conductivity
- Guaranteed thermal performance
- Competitive price points to other thermal interface materials
- Soft and highly compressible for low stress applications
- Tacky both sides
- Thickness range from 0.5mm to 5mm stocked in the USA
- Offering quick turn converting in the USA and China

**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

**TYPICAL MATERIAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST STANDARD</th>
<th>UNIT</th>
<th>9421</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Visual</td>
<td></td>
<td>Light Brown</td>
</tr>
<tr>
<td>Thickness</td>
<td>ASTM D374</td>
<td>mm</td>
<td>0.5-5</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D2240</td>
<td>Shore00</td>
<td>40</td>
</tr>
<tr>
<td>Density</td>
<td>Helium Pyncometer</td>
<td>g/cm³</td>
<td>2.70</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>Hot Disk</td>
<td>W/mK</td>
<td>2.5</td>
</tr>
<tr>
<td>Dielectric Constant @ 1MHZ</td>
<td>ASTM D150</td>
<td></td>
<td>7.47</td>
</tr>
<tr>
<td>Dielectric Breakdown Voltage / mm</td>
<td>ASTM D149</td>
<td>VAC/mm</td>
<td>5000</td>
</tr>
<tr>
<td>Volume Resistance</td>
<td>ASTM D257</td>
<td></td>
<td>8.48*10^12</td>
</tr>
<tr>
<td>Outgassing, TML</td>
<td>ASTM E595</td>
<td></td>
<td>0.13%</td>
</tr>
<tr>
<td>Outgassing, CVCM</td>
<td>ASTM E595</td>
<td></td>
<td>TBD</td>
</tr>
</tbody>
</table>

*Thicknes tolerance, ±10% mm @ nominal thickness greater than 1mm; ± 0.1mm @ nominal thickness less than 1mm.

*Thirty second delay value shore 00 hardness scale.

**Please Note:**

Observed performance may vary in certain circumstances. It is recommended that customers test the material with their specific applications.
**DESIGN NOTES**

It is recommended to use the material in up to 20%-30% of compression degree. A compression degree of 50% is possible to use but above that level is a thinner pad recommended. We recommend applying pressure slowly and evenly over the entire surface to achieve the highest performance and lowest thermal resistance.

**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>0.25MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-6070</td>
</tr>
<tr>
<td>0.5MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5932</td>
</tr>
<tr>
<td>0.75MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5933</td>
</tr>
<tr>
<td>1MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5934</td>
</tr>
<tr>
<td>1.25MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5935</td>
</tr>
<tr>
<td>1.5MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5936</td>
</tr>
<tr>
<td>1.75MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5937</td>
</tr>
<tr>
<td>2MM</td>
<td>200MM x 200MM</td>
<td>2.5 W</td>
<td>9421</td>
<td>TM-280-5938</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**

- TriShield
- CompasShield
- WesShield

**THE NOLATO GROUP**

Nolato is an advanced high-tech polymer partner with operations in Europe, Asia and North America. We develop and manufacture products in materials such as plastic, silicone and TPE. Our customer offering comprises everything from concept development, product design and process optimization to high-volume production, post-processing, assembly and logistics.

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that 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.

This information is based on data believed to be reliable, but Modus makes no warranties, expressed or implied, as to its accuracy and assumes no liability arising out of its use. The data listed falls within the normal range of product properties, but should not be used to establish specification limits or used alone as the basis of design. Modus’ liability to purchasers is expressly limited to the terms and conditions of sales listed on our website.

**CUSTOMERS ALSO SEARCHED:**

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