COMPATHERM® PAD 9431

Compatherm® Pad 9431 is a thermal pad designed for applications requiring high thermal conductivity and electric insulation in a very soft viscoelastic material.

This pad is naturally tacky on both sides, but can be coated on one side to remove the natural tackiness if needed.

**FEATURES AND BENEFITS**

- 3 W/mK thermal conductivity
- Electrically insulating
- 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

**TYPICAL MATERIAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST STANDARD</th>
<th>UNIT</th>
<th>9431</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Visual</td>
<td></td>
<td>Blue</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>3.1</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>Hot Disk</td>
<td>W/mK</td>
<td>3</td>
</tr>
<tr>
<td>Dielectric Breakdown Voltage</td>
<td>ASTM D149</td>
<td>VAC/mm</td>
<td>&gt;8000</td>
</tr>
<tr>
<td>Volume Resistance</td>
<td>ASTM D257</td>
<td></td>
<td>3.3*10¹⁵</td>
</tr>
<tr>
<td>Dielectric Constant @ 1MHZ</td>
<td>ASTM D150</td>
<td></td>
<td>4.07</td>
</tr>
<tr>
<td>Outgassing, TML</td>
<td>ASTM E595</td>
<td></td>
<td>0.04%</td>
</tr>
<tr>
<td>Outgassing, CVCM</td>
<td>ASTM E595</td>
<td></td>
<td>0.003%</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL94</td>
<td></td>
<td>VO</td>
</tr>
</tbody>
</table>

1) Thickness tolerance, ±10% mm @ nominal thickness greater than 1mm; ± 0.1mm @ nominal thickness less than 1mm.
2) Thirty second delay value Shore 00 hardness scale.
3) Measured on 1 mm thickness @20 mA.
4) Flame rating valid for 0.25mm thick samples sandwiched between a PCB and an aluminium plate.

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 a thinner gap pad is recommended. Excessive compression may result in silicone oil bleeding. 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.

### ORDERING COMPATHERM®

<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>0.5MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5662</td>
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<tr>
<td>1MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5663</td>
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<tr>
<td>1.5MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5664</td>
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<tr>
<td>2MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5665</td>
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<tr>
<td>2.5MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5666</td>
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<tr>
<td>3MM</td>
<td>200MM x 200MM</td>
<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5667</td>
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<tr>
<td>4MM</td>
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<td>TM-280-5668</td>
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<tr>
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<td>3 W/mK</td>
<td>9431</td>
<td>TM-280-5669</td>
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</tbody>
</table>

CUSTOMERS WHO USE COMPATHERM® MAY ALSO BE INTERESTED IN:

EMI SHIELDING

CUSTOMERS ALSO SEARCHED:
gap filler  thermal gap pad  thermal gap filler  thermal interface pad  thermal interface pad  thermally conductive rubber  thermally conductive pads  what is a thermal pad
thermal material  thermal gap filler  thermal interface pad  thermal materials  thermal silicone  heat transfer pad  thermally conductive pad  silicone gap filler  conductive pads  thermal pad material  silicone thermal pad

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 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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