

COMPATHERM® PAD 9422

COMPATHERM PAD

Compatherm® Pad 9422 is a thermal pad recommended for low-stress applications that require a mid thermal conductive interface material. The compliant material allows the pad to fill in air voids in rough surfaces and stack-up tolerance.

Compatherm Pad 9422 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.

TYPICAL MATERIAL PROPERTIES

PROPERTY	TEST STANDARD	UNIT	9422
Color	Visual		Light Blue
Thickness ¹⁾	ASTM D374	mm	0.5-5
Hardness ²⁾	ASTM D2240	Shore00	25
Density	Helium Pycnometer	g/cm ³	2.73
Thermal conductivity	Hot Disk	W/mK	2
Dielectric Breakdown Voltage / mm ³⁾	ASTM D149	VAC	5000
Volume Resistance	ASTM D257		4*10 ¹⁶
Dielectric Constant @ 1MHZ	ASTM D150		3.96
Outgassing, TML			0.1%
Flammability ⁴⁾	UL94		V0

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

2) Thirty second delay

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.

FEATURES AND BENEFITS

- 2 W/mK thermal conductivity
- High compliant for low stress applications
- Soft hardness for low stress applications
- Nature tacky or no tacky on carrier side
- Available in thickness from 0.5mm to 5mm

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

MODUS ADVANCED TAKES
YOU FROM IDEA TO IGNITION



IDEA



ENGINEERING



SOLUTION



IGNITION



PICK A MATERIAL

LET MODUS CUT IT TO SIZE

COMPATHERM® PAD 9422

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 pad is recommended. Excessive compression may result in silicone oil bleeding. It is also recommended to use one and the 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.

THICKNESS	SHEET SIZE	THERMAL RATING	NOLATO STYLE #	MODUS PART #
0.5MM	200MM x 200MM	2 W/mK	9422	TM-280-5939
0.75MM	200MM x 200MM	2 W/mK	9422	TM-280-5940
1.MM	200MM x 200MM	2 W/mK	9422	TM-280-5941
1.25MM	200MM x 200MM	2 W/mK	9422	TM-280-5942
1.5MM	200MM x 200MM	2 W/mK	9422	TM-280-5943
1.75MM	200MM x 200MM	2 W/mK	9422	TM-280-5944
2MM	200MM x 200MM	2 W/mK	9422	TM-280-5945

CUSTOMERS WHO USE COMPATHERM® MAY ALSO BE INTERESTED IN:

EMI SHIELDING

Trishield® COMPASHIELD®



CUSTOMERS ALSO SEARCHED:

gap filler	thermal gap pad	thermal interface pad	thermally conductive rubber
thermal material	thermal gap filler	thermally conductive pad	thermal conductive pads
thermal interface materials	thermal interface pad	silicone gap filler	what is a thermal pad
thermal putty	thermal materials	conductive pads	
thermal conductive pad	thermal silicone	thermal pad material	
gapfiller	heat transfer pad	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 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.

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STORAGE CONDITIONS

- The material can be stored one year after receipt at normal room temperature and humidity.

APPLICATION PROCEDURE

- Remove the top PET liner from the top surface of the sheet.
- With fingers remove the die cut part from the bottom PET liner.
- Place the part in the desired surface of heat sink, heat spreader of component.
- The stickiness of the material will assure that it adheres to the surface without need of high pressure.
- Do not press the part too hard when applying it to assure that height of the material is not destroyed.
- Once applied, it is not recommended to remove and re-use the Compatherm part as it has low material stability.
- If needed, peel off the part from the surface by hand and replace it with a new one.

REPAIR PROCEDURE

- At room temperature slide or pull or twist the heatsink to separate it from the PCB.
- After separation, remove both surfaces with a plastic tool to remove the bulk of material.
- Clean both surfaces with tissue wiper.
- Apply a new Compatherm part.