

COMPATHERM® PAD 9472



COMPATHERM®

Compatherm® Pad 9472 is high conformable and thermal performance pad material. It has high thermal conductivity 7 W/mK and strictly 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.

TYPICAL MATERIAL PROPERTIES

PROPERTY	TEST STANDARD	UNIT	9472
Color	Visual		Light Grey
Thickness ¹⁾	ASTM D374	mm	1-5
Hardness ²⁾	ASTM D2240	Shore00	20
Density	Helium Pycnometer	g/cm ³	2.55
Thermal conductivity	Hot Disk	W/mK	7
Dielectric Breakdown Voltage ³⁾	ASTM D149	VAC/mm	1500
Volume Resistance	ASTM D257		6.7*10 ¹²
Dielectric Constant @ 1MHZ	ASTM D150		6.4
Outgassing, TML	ASTM E595		TBD
Outgassing, CVCM	ASTM E595		TBD
Flammability ⁴⁾	UL94		VO

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 0.25 thick sample sandwiched between a PCB and an aluminum plate

Please Note:

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

FEATURES AND BENEFITS

- 7 W/mK thermal conductivity
- Soft and high compressibility for low stress applications
- Nature tacky or no tacky on carrier side
- Available in thickness from 1 mm 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

APPLICATION PROCEDURE

- Remove the top BLUE liner from the top surface of the sheet.
- With fingers remove the die cutted part from the bottom BLUE liner.
- Place the part in the desired surface of heat sink, heat spreader of component.
- The stickyness of the material will assure that it adheres to the surface without need of high pressure.

MODUS ADVANCED TAKES
YOU FROM IDEA TO IGNITION



IDEA



ENGINEERING



SOLUTION



IGNITION



PICK A MATERIAL

LET MODUS CUT IT TO SIZE

COMPATHERM® PAD 9472

DESIGN NOTES

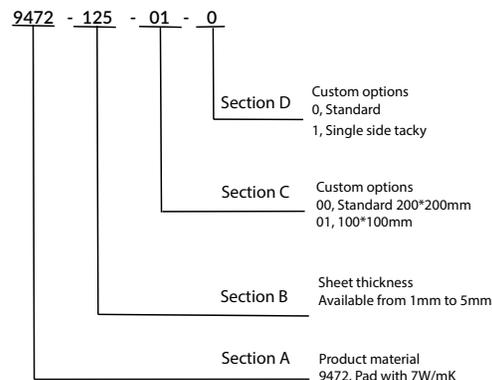
Due to material low hardness, It can be used degree in large tolerance application up to 50% of compression with low stress. It is recommended to apply pressure slowly in assembly to achieve better interface contact and lower stress. Product is easy to flow to wet interface during compression which results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

A compression degree of 70% is possible to use but above that level is a thinner gad filler pad 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.

On request, the Compatherm sheets can be delivered with die cut in the customer shape for direct application. Please consult the Marketing department of Nolato if this option is requested.



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.

STORAGE CONDITIONS

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

PART NUMBER EXAMPLES

- 9472125010=Comparthem® Pad 9472 in 1.25mm thickness, 100*100mm sheet
- 9472250000=Comparthem® Pad 9472 in 2.5mm thickness, 200*200mm sheet

CUSTOMERS WHO USE COMPATHERM® MAY ALSO BE INTERESTED IN:

EMI SHIELDING



CUSTOMERS ALSO SEARCHED:

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

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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