MODUS™
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Nolato
EMC & THERMAL SOLUTIONS

DATASHEET

COMPATHERM®
FORM-IN-PLACE 9343

COMPATHERM® FIP

Compatherm® 9343 Form-In-Place is a thermally conductive two component RTV compound from Nolato.

TYPICAL MATERIAL PROPERTIES

PROPERTY	TEST PROCEDURE	UNIT	9343
Base material			Silicone
Color component A			White
Color component B			Brown
Viscosity (mixed)	Brookfield 10rpm	Pas	350
Flow rate	50psi 2mm orifice	g/min	28
Density	ISO2781	g/cm^3	3.1
Mix ratio			1.1
CURED MATERIAL			
Color			Brown
Hardness	ASTM D5470	Shore00	75
Tensile strength	ISO37	Mpa	0,1
Thermal conductivity	ISO 22007-2 modified	W/mK	4
Dielectric Breakdown Voltage	ASTM D149	VAC/mm	5000
Volume resistivity	ASTM D257	Ohm-cm	1*10^{15}
Outgassing, TML / CVCM	ASTM E595	%	TBD
Flammability	UL94		TBD
CURING			
Potlife		min	4h
Cure at 25° C		h	20
Cure at 100° C		min	15

FEATURES AND BENEFITS

- Nolato integrated dispensing head solution.
- 4 W/mK thermal conductivity
- Operating temperature -40 to +150˚ C
- Ultra conforming before curing
- Very good wetting.
- 2k material gives high mechanical stability after curing

APPLICATIONS

The product is used to transfer heat from hot components on a PCB to a heat sink. The A and B component is mixed through a static mixer and dispensed on the heat sink. This gives the ability to cover various gap heights and complex geometries with a very low closure force.

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COMPRESSION FORCE AT DIFFERENT DEGREES OF COMPRESSION

Compatherm® Form-In-Place requires an ultralow force upon compression since compression is done before curing. Below is typical data of maximum force when a 1 cm^2 area is compressed starting at a fully filled 5 mm gap. Compression speed is 10 mm/min.

Compression Rate	Force (N/cm^2)
20%	0,05
30%	0,06
40%	0,08
50%	0,12
60%	0,13
70%	0,20
80%	0,35
90%	1,00
95%	5,00

ORDERING COMPATHERM

Compatherm® is available as standard in 310 ml cartridges or delivered in larger cartridges or pails.

STORAGE CONDITIONS

The material has a shelf life of at least 6 months at room temperature.

CUSTOMERS WHO USE COMPATHERM® MAY ALSO BE INTERESTED IN:

EMI SHIELDING

Trishield® COMPASHIELD® WesShield

CUSTOMERS ALSO SEARCHED:

- 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
- 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

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

ABOUT MODUS

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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