COMPATHERM®

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Data Sheet Compatherm Filler 9344

Compatherm filler 9344 is a thermally conductive two-part addition cured compound from Nolato. Compatherm filler 9344 is delivered as A and B component.

Compatherm filler key properties 9344

- 4 W/(mK) thermal conductivity
- Operating temperature -40 to +200˚ C
- Ultra-conforming
- Very good wetting
- Two-part material gives high mechanical stability after curing
- customized option available for adding glass beads with PN 9344GB

1. Applications

The product is used to transfer heat from heat sources, such as components on a PCB, to a heat sink. Compatherm filler 9344 has the ability to cover various gap heights and complex geometries with a very low closure force.

2. Typical Product Data

2.1. Cured Material Properties

	Test procedure	Unit	9344
Base material			Silicone
Colour	Visual		Green/Pink
Hardness	ASTM D2240	Shore00	50
Density	ASTM D792	g/cm^3	3.1
Thermal conductivity	ISO 22007-2 (Hot Disk)	W/(mK)	4
	ASTM D5470	W/(mK)	4
Volume resistivity	ASTM D 257	Ωcm	2.16*10^{14}
Breakdown voltage	ASTM D149	VAC/mm	8000
Dielectric constant at 1MHz	ASTM D150		8.31
Outgassing, TML[1)]	ASTM E595 (modified)	%	0.1
Flammability [2)]	UL94		V-0

1) Outgassing 24h at 150 ˚C under ambient pressure. 2) 2) UL file number QMFZ2.E483565.

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2.2. Uncured Material Properties

	Test procedure	Unit	9344
Mix ratio			1:1
Colour component A	Visual		White
Colour component B	Visual		Green
Viscosity (mixed)	Brookfield 10rpm	Pas	300
Flow rate	50psi, 2mm orifice	g/min	36

2.3. Design Notes

Curing	Test procedure	Unit	9344
Pot life at 25 ° C	Nolato	h	2.5
Curing time at 18° C	Nolato	h	16
Curing time at 25° C	Nolato	h	12
Curing time at 100° C	Nolato	min	15

3. Glass beads size

	D10	D50	D90
Glass beads size distribution/㎛	90	190	370

4. Ordering

When ordering Compatherm material please refer to the thermal guide (https://thermalguide.nolato.com/) or consult the Nolato marketing department.

5. Storage

Compatherm filler 9344 can be stored 6 months after production date at 0 to 30°C. Cartridges are recommended to be stored nozzle down. Only components A and B with the same lot number may be processed together.

Some degree of sedimentation can occur over time. If sedimentation is suspected additional stirring/mixing of the A and B components in pales is recommended to ensure homogeneous properties of the cured filler.

6. RoHS Information

Compatherm filler 9344 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

7. Safety Instructions

Compatherm filler 9344 is not considered as hazardous according to EU Directive 1272/2008 (CLP) and is not subject to the directive of classification, packaging and labelling of dangerous goods. A material safety data sheet can be sent on request.

8. Warranty

The recommendations and data given are based on our experience to date, however, no liability can be assumed in connection with their usage and processing. The typical property data as shown above should not be used as a specification.