

## Data Sheet Compatherm Filler 9390

Compatherm filler 9390 is a thermally conductive two-part addition cured compound from Nolato. Compatherm filler 9390 is delivered as A and B component.

Compatherm filler key properties 9390

- 9.3 W/(mK) thermal conductivity
- Operating temperature -40 to +150° C
- Ultra-conforming
- Very good wetting
- Two-part material gives high mechanical stability after curing

### 1. Applications

The product is used to transfer heat from heat sources, such as components on a PCB, to a heat sink. Compatherm filler 9390 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	9390
Base material			Silicone
Colour	Visual		Blue
Hardness	ASTM D2240	Shore00	55
Density	ASTM D792	g/cm <sup>3</sup>	2.95
Thermal conductivity	ISO 22007-2 (Hot Disk)	W/(mK)	9.3
	ASTM D5470	W/(mK)	9.3
Volume resistivity	ASTM D 257	Ωcm	7.11*10 <sup>10</sup>
Breakdown voltage	ASTM D149	VAC/mm	10000
Dielectric constant at 1MHz	ASTM D150		10
Outgassing, TML <sup>1)</sup>	ASTM E595 (modified)	%	0.35
Flammability <sup>2)</sup>	UL94		V0

1) Outgassing 24h at 150 °C under ambient pressure. 2) Tested at external lab.

## 2.2. Uncured Material Properties

	Test procedure	Unit	9390
Mix ratio			1:1
Colour component A	Visual		White
Colour component B	Visual		Blue
Flow rate	50psi, 2mm orifice	g/min	30

## 2.3. Design Notes

Curing	Test procedure	Unit	9390
Pot life at 25 ° C	Nolato	h	3
Curing time at 25° C	Nolato	h	16
Curing time at 100° C	Nolato	min	15

## 3. Ordering

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

## 4. Storage

Compatherm filler 9390 can be stored 9 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.

## 5. RoHS Information

Compatherm filler 9390 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

## 6. Safety Instructions

Compatherm filler 9390 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.

## 7. 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.