COMPATHERM®

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Preliminary Data Sheet Compatherm Filler 92100

Compatherm Filler 92100 is a one-part thermal filler from Nolato. It is formulated on a non-curing matrix that gives it a thixotropic gel-like consistency, making it highly suitable for automated dispensing.

Compatherm filler 92100 key properties

- High 10 W/(mK) thermal conductivity
- Operating temperature -40 to +150˚C
- Ultra-conforming
- Very good wetting
- Low contact resistance

1. Applications

The product is used to transfer heat from heat sources, such as components on a PCB, to a heat sink. Its thixotropic formulation gives it the ability to cover various gap heights and complex geometries as well as large areas with an extremely low closure force. Its property of not curing but always staying in a viscous state makes it ideal for applications where re-work is expected.

2. Typical Product Data

2.1. Material Properties

	Test procedure	Unit	92100
Base material			Silicone
Colour			Purple
Density	ISO2781	g/cm^3	3.03
Thermal conductivity	ISO 22007-2 (Hot Disk)	W/(mK)	10
	ASTM D5470	W/(mK)	10
Breakdown voltage	ASTM D149	VAC/mm	6000
Outgassing, TML [1)]	ASTM E595 (modified)	%	0.06

1) Outgassing 24h at 150 ˚C under ambient pressure

Nolato

2.2. Design Notes

	Test procedure	Unit	92100
Flow rate 3.18mm nozzle @ 90 psi	Nolato	[g/min]	30
Minimum bondline thickness @40psi	Nolato	mm	0.25

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 92100 can be stored 6 months after production date at 0 to 30 °C. Cartridges are recommended to be stored nozzle down.

5. RoHS Information

Compatherm filler 92100 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

6. Safety Instructions

Compatherm filler 92100 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.