

## Data Sheet Compatherm Paste 9543

Compatherm Paste 9543 a high performance, thin bondline thermal paste from Nolato.

Compatherm paste 9543 key properties

- 4.3 W/(mK) thermal conductivity
- Operating temperature -40 to +150° C
- Non curing
- Excellent long-time stability

### 1. Applications

Nolato thermal paste 9543 is designed to provide efficient heat transfer for cooling of modern electronics.

### 2. Typical Product Data

#### 2.1. Thermal Properties

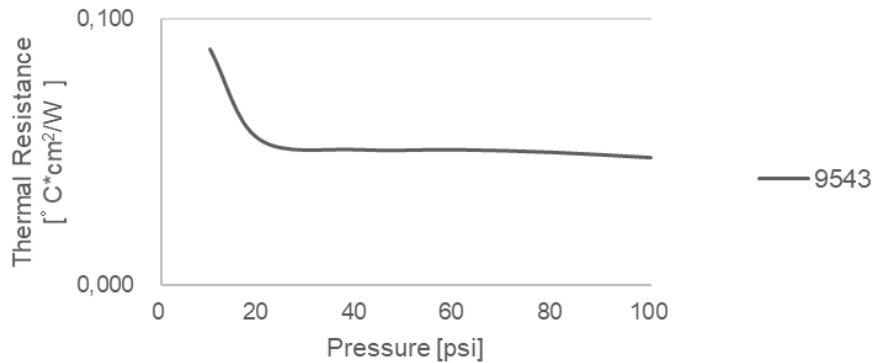
	Test procedure	Unit	9543
Thermal conductivity	ISO 22007-2 (Hot Disk)	W/(mK)	4.3
Thermal resistance at 40 psi	ASTM D5470	°Ccm <sup>2</sup> /W	0.06

#### 2.2. Material Properties

	Test procedure	Unit	9543
Base material			Silicone
Colour	Visual		Gray
Specific gravity	ASTM D792 (Helium pycnometer)	g/cm <sup>3</sup> (g/cc)	2.3
Viscosity	Brookfield T-F at 10 RPM	cps	250 000
Minimum achievable bond line	Nolato	µm	20
Dielectric breakdown voltage	ASTM D149	VAC/mm	400
Outgassing, TML <sup>1)</sup>	ASTM E595 (modified)	%	0.3

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

## 2.3. Typical Compression and Thermal Resistance vs Pressure



\* Graph is provided for general reference only. Actual performance will depend on surface properties and other application specific conditions. Engineers are therefore strongly recommended to test materials in conditions realistic to final application.

## 2.4. Design Notes

For manual application, a plastic applicator is recommended. This ensures an even surface and good wetting. Metal applicator will have problem to get a uniform layer over a large area

## 3. Ordering

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

## 4. Storage

The material can be stored one year after production date at 0 to 30°C. Cartridges are recommended to be stored nozzle down.

Some degree of sedimentation can occur over time. If sedimentation is suspected additional stirring/mixing in the pales or jars is recommended to ensure homogeneous properties.

## 5. RoHS Information

Compatherm filler 9543 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

## 6. Safety Instructions

Compatherm filler 9543 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.