

Document Preliminary Product Data Sheet Nolato 8510		No. DS 8510	Rev 3	
Prepared by Magnus Mattsson	Checked MM	Date 2012-05-23	Page 1(2)	

Silicone Rubber Nolato 8510

1. Characteristics

Nolato 8510 is a silicone rubber.

- A two-component thermal cure silicone.
- Low viscosity offers short cycle times in any dispensing machine.
- Low compression force and excellent mechanical properties.
- Operating temperatures between -55°C and +200°C.
- The material has a natural semi-transparent appearance.

2. Applications

- Nolato 8510 used as the core material of the Trishield soft gaskets
- Typical applications include EMI shielding gaskets mobile phone base stations.

3. Processing

Nolato 8510 is a two-component compound of pasty consistency. The component A and B are delivered in 1000 ml cartridges with a shelf life of at least 6 month if stored at -18 C. The components are mixed in a ratio of 1:1 by weight prior to use. The mixed material is dispensed as a core bead together with an electrically conductive shell material, directly on the component with a modified dispensing machine. Curing is done in a hot air oven at 100 C for 30 minutes. For detailed information please refer to the “Mixing and handling instruction”.

4. Product data

	Test procedure	Unit	8510
Base material			Silicone rubber
Density, uncured		g/cm ³	0,9
Viscosity A comp. at shear rate 10 ^{s-1}	Nolato FOU-04/5	Pas	50
Viscosity B comp. at shear rate 10 ^{s-1}	Nolato FOU-04/5	Pas	40
Viscosity mixed. at shear rate 10 ^{s-1}	Nolato FOU-04/5	Pas	60

5. Mechanical properties

	Test procedure	Unit	8510
Density, cured	ISO 2781	g/cm ³	1,1
Hardness	ISO 7619	Shore A	23
Tensile strength	ISO 37	MPa	7,9 ¹
Elongation at break	ISO 37	%	750
Tear strength	ISO 34-1C	N/mm	21 ²
Compression set, 72 hours, 100°C	ISO 815	%	8
Compression modulus, 10% strain	ISO 7743	MPa	2,8
20% strain			3,1
Flammability	UL 94		V0 ³

¹ 1 MPa = 145 psi ² 1 N/mm = 5,71 lb/in

³ Tested on a 0,8 mm thick gasket adhered to an aluminium substrate with a thickness of 2 mm.

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6. RoHS information

Nolato 8510 fulfils the requirements set by the EU Directive 2002/95/EC (RoHS).

7. Safety instructions

Nolato 8510 is not considered as hazardous according to EU directive 1999/45/EC 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 data given in this product information should be taken only as a guide and not a specification. Data are based on statistical evaluation on data measured on a number of batches at Nolato.

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.