

Data Sheet Trishield Conductive Silicone Rubber Nolato 8710

Nolato 8710 is a conductive silicone rubber used to produce integrated EMI shielding gaskets by dispensing.

Nolato 8710 key properties:

- Typical gasket height from 0,8 to 2,0 mm.
- Recommended compression between 10 and 50%.
- Operating temperatures between -55°C and +125°C.
- Good adhesion to most metal and metallised surfaces.
- Low viscosity offers short cycle times in any dispensing machine.
- Thermal cure silicone.

1. Applications

Nolato 8710 is particularly suitable for production of gaskets on large series of aluminium castings when there is a demand of a gasket with good shielding properties. Typical applications include dispensed EMI shielding gaskets in mobile phone base stations.

2. Typical Product Data

	Test procedure	Unit	8710
Base material			Silicone rubber
Conductive filler			Ag/Al
Density, uncured		g/cm ³	1,7
Viscosity mixed. at shear rate10 s-1	Nolato FOU-04/5	Pas	75
Electrical resistance	Nolato FOU-04/6	mOhm	40
Adhesion	Nolato FOU-04/7		Cohesive failure

2.1. Mechanical Properties

Test procedure	Unit	8710
ISO 2781	g/cm ³	1,9
ISO 48-4	Shore A	65
ISO 37	MPa	2,0
ISO 37	%	140
ISO 34-1C	N/mm	14
ISO 815	%	35
	ISO 2781 ISO 48-4 ISO 37 ISO 37 ISO 34-1C	ISO 2781 g/cm³ ISO 48-4 Shore A ISO 37 MPa ISO 37 % ISO 34-1C N/mm

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



2.2. Electrical and Shielding Properties

	Test procedure	Unit	8710
Volume resistivity, as moulded	MIL-DTL-83528C	mOhmcm	8
Volume resistivity, aged 48h/156°C	MIL-DTL-83528C	mOhmcm	10
Average shielding effect, 0,3-20 GHz	Nolato cavity to	dB	70
	cavity test method		

3. Processing

Nolato 8710 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 9 months if stored at –18°C. The components are mixed in a ratio of 1:5,4 by weight prior to use. The mixed material is dispensed as a bead directly on the component with a standard dispensing machine. Curing is done in a hot air oven at 100°C for 30 minutes. For detailed information please refer to the "Trishield Mixing and handling instruction".

4. RoHS Information

Nolato 8710 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

5. Safety Instructions

Nolato 8710 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.

6. 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.

