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Data Sheet Trishield Conductive Silicone Rubber Nolato 8800

Nolato 8800 is a conductive silicone rubber used to produce integrated EMI shielding gaskets by dispensing.

Nolato 8800 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 8800 is particularly suitable for production of gaskets on large series of aluminium castings when there is a demand of a gasket with excellent shielding properties. Typical applications include dispensed EMI shielding gaskets in mobile phone base stations.

2. Typical Product Data

	Test procedure	Unit	8800
Base material			Silicone rubber
Conductive filler			Ag/Ni
Density, uncured		g/cm ³	2,6
Viscosity mixed. at shear rate10 s-1	Nolato FOU-04/5	Pas	75
Electrical resistance	Nolato FOU-04/6	mOhm	20
Adhesion	Nolato FOU-04/7		Cohesive failure

2.1. Mechanical Properties

	Test procedure	Unit	8800
Density, cured	ISO 2781	g/cm ³	3,1
Hardness	ISO 7619	Shore A	55
Tensile strength 1)	ISO 37	MPa	2,9
Elongation at break	ISO 37	%	240
Tear strength ²⁾	ISO 34-1C	N/mm	14
Compression set, 72 hours/100°C	ISO 815	%	25
Flammability 3)	UL 94		V0

^{1) 1} MPa = 145 psi 2) 1 N/mm = 5,71 lb/in 3) UL file no. OCDT2.E471560





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2.2. Electrical and Shielding Properties

	Test procedure	Unit	8800
Volume resistivity, as moulded	MIL-DTL-83528C	mOhmcm	15
Volume resistivity, aged 48h/156°C	MIL-DTL-83528C	mOhmcm	17
Average shielding effect, 0,3-20 GHz	Nolato modified MIL STD 285	dB	107

3. Processing

Nolato 8800 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 1:7,2 by weight prior to use. The mixed material is dispensed as a bead directly on the component with a standard dispensing machine. The dispensed gasket could be given a narrow shape in the Trishield forming unit. 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 8800 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

5. Safety Instructions

Nolato 8800 is according to EU directive 1272/2008 (CLP) classified as hazardous, due to the content of nickel. Nickel may cause sensitisation by skin contact. It is advisory to never touch the gasket without gloves. 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.

^{*} Production of Trishield gaskets requires a license from Nolato. The licence includes rights to produce and market Trishield gaskets and technical support and the special forming unit.