

Data Sheet Trishield Silicone Rubber Nolato 8520

Nolato 8520 is a silicone rubber used to produce gaskets by dispensing directly on industrial components.

Nolato 8520 key properties:

- Typical gasket height from 0,8 to 1,5 mm. Width to height ratio is > 1.
- Recommended compression between 10 and 50%.
- Operating temperatures between -55°C and +200°C.
- Good adhesion to most metal and plastic surfaces.
- Low viscosity offers short cycle times in any dispensing machine.
- The gasket has a grey colour described as RAL 7000.
- Thermal cure silicone.

1. Applications

Nolato 8520 is particularly suitable for economical production of gaskets on large series of aluminium castings. Typical applications include environmental sealing gaskets. Nolato 8520 has been tested and is considered suitable for applications in contact with glycol.

2. Typical Product Data

	Test procedure	Unit	8520
Base material			Silicone rubber
Density, uncured		g/cm ³	0,9
Viscosity mixed. at shear rate 10 ^{s-1}	Nolato FOU-04/5	Pas	60
Adhesion	Nolato FOU-04/7		Cohesive failure

2.1. Mechanical Properties

	Test procedure	Unit	8520
Density, cured	ISO 2781	g/cm ³	1,1
Hardness	ISO 48-4	Shore A	40
Tensile strength ¹⁾	ISO 37	MPa	5,6
Elongation at break	ISO 37	%	570
Tear strength ²⁾	ISO 34-1C	N/mm	24
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

3. Processing

Nolato 8520 is a two-component compound of pasty consistency. The component A and B are delivered with a shelf life of 9 months 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 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 "Mixing and handling instruction".

4. RoHS Information

Nolato 8520 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

5. Safety Instructions

The 8520 material is suitable for UL50E, UL file no JMLU.MH60440. Nolato 8520 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. Typical property data should not be used as a specification.