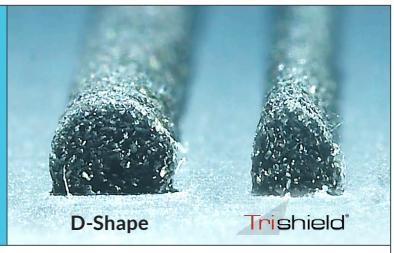
MODUS™
IDEA TO IGNITION™

Nolato

DATASHEET

FORM IN PLACE GASKET NOLATO CONDUCTIVE SILICONE RUBBER 8953



Trishield®

CHARACTERISTICS

Nolato 8953 is a conductive silicone rubber.

- Typical gasket height from 1,3 to 3,0 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.

APPLICATIONS

- Nolato 8953 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 automotive applications.

PROCESSING

Nolato 8953 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 1:1 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 2.0 forming unit. Curing is done in a hot air oven at 150°C for 30 minutes.

PRODUCT DATA

PROPERTY	TEST STANDARD	UNIT	8953
Base Material			Silicone rubber
Conductive Filler			Ni/C
Density, uncured		g/cm^3	1.8
Viscosity mixed. at shear rate 10 s-1	Nolato FOU-04/5	Pas	65
Electrical resistance	Nolato FOU-04/6	mOhm	200
Adhesion	Nolato FOU-04/7		Cohesive failure

*Production of Trishield gaskets require a license from Nolato. The license includes rights to produce and market Trishield gaskets and technical support and the special forming unit.

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MECHANICAL PROPERTIES

PROPERTY	TEST STANDARD	UNIT	8953
Density, cured	ISO 2781	g/cm^3	2.0
Durometer/Hardness	ISO 48-4	Shore A	65
Tensile strength	ISO 37	MPa	0.9
Elongation at break	ISO 37	%	120
Tear strength	ISO 34-1C	N/mm	7
Compression set, 72 hours/100°C	ISO 815	%	60

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

ELECTRICAL PROPERTIES

PROPERTY	TEST STANDARD	UNIT	8953
Volume resistivity, as molded	MIL-DTL-83528C	mOhmcm	5
Volume resistivity, heat aged 48h/156°C	MIL-DTL-83528C	mOhmcm	6
Average shielding effect, 0.3 – 20 GHz	Nolato cavity to cavity test method	dB	130

RoHS INFORMATION

Nolato 8953 fulfils the requirements set by the EU Directive 2011/65 (RoHS).

SAFETY INSTRUCTIONS

Nolato 8953 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 advised to never touch the gasket without gloves. A material safety data sheet can be sent on request.

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.

CUSTOMERS WHO USE TRISHIELD® MAY ALSO BE INTERESTED IN:

EMI SHIELDING

COMPATHERM®

COMPASHIELD®

CUSTOMERS ALSO SEARCHED:

form in place gasket
liquid gasket
liquid gaskets
paste gasket
liquid gasket
emi gasket
gasket tack
conductive silicone gasket
form in place
conductive silicone
conductive material
emi silicone
form in place gaskets
emi shielding gasket
dispensed gaskets
formed gasket
dispensed gasket
electrically conductive gasket
form-in-place
silver silicone
dispensed gasket
nickel graphite silicone
conductive gasket

THE NOLATO GROUP

Nolato is an advanced high-tech polymer partner with operations in Europe, Asia and North America. We develop and manufacture products in materials such as plastic, silicone and TPE. Our customer offering comprises everything from concept development, product design and process optimization to high-volume production, post-processing, assembly and logistics

ABOUT MODUS

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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