

Data Sheet

M396 Blue Metal Detectable Nitrile Rubber EU1935:2004

Data Sheet Type	Final
Material Reference	M396 NBR
Polymer	Food Grade NBR
Date Issued	31/03/25



Description

MacNetic is a Premium Grade Blue Nitrile Rubber Sheet Metal Detectable by electromagnetic sensors and magnetic detectors. Coloured Blue for industry compliance within the Food, Pharmaceutical, Chemical and Cosmetics industries.

Independently certified EU1935:2004 compliant for contact with foodstuffs, Nitrosamine Free, Bisphenol A (BPA) Free and Animal Derived Ingredients Free (ADI).

Suitable for applications including gaskets, seals, joints, skirts and curtains within safety critical industries.

Typically sold in Rolls that are 1.4 Metre Wide and 10 Metres Long for Thicknesses up to 6mm and 5 Metres Long for 8mm and above.

We supply this grade of Rubber Sheet in 1mm, 1.5mm, 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, 20mm & 25mm Thick.

Rubber Rolls will normally be Palletised and sent using a National Pallet Network.

Specifications	Values	Test Methods
Accelerated Ageing - Change in Elongation at Break (72 Hours @ 70°C)	-9 %	ISO 37
Accelerated Ageing - Change in Hardness (72 Hours @ 70°C)	+3 ° Shore	ISO 868:2003
Accelerated Ageing - Change in Tensile Strength (72 Hours @ 70°C)	-5 %	ISO 37
Compression Set (ISO815)	35 %	ISO 815
Elongation at Break	550 %	ISO 37
Highest Recommended Working Temperature	100 °C	None
Lowest Recommended Working Temperature	-30 °C	None
Magnetic Pull	5.5 mm	SEWI 700
Shore Hardness (Shore A)	60 ° Shore	None
Specific Weight	1.5 g/cm 3	None
Tensile Strength	9 MPA	ISO 37

Purposes



Food Contact Suitability



Metal Detectable



Nitrosamine Free

Important Notes about this Material Data Sheet

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.