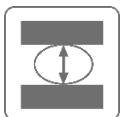


M SEALS NBR-B75

75a Soft Nitrile Butadiene Rubber

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Compression Set Resistance



Elastic Behaviour

Description

M Seals material NBR-B75 is a soft 75a Shore hardness Nitrile Butadiene Rubber which is commonly referred to as NBR or BUNA-N. This material provides excellent elasticity and compression-set characteristics, making it an excellent choice for low-pressure hydraulic and pneumatic seals or energising elements for composite type seals.

Good physical characteristics and resistance to the most common hydraulic industry fluids such as Mineral Oils, HFA, HFB and HFC make NBR-B75 a suitable seal material in many industrial applications.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 1183	g/cm ³	1.22
Hardness	ISO 868	Shore A	73 (+/-5)
Tensile Strength	DIN 53504	MPa	14
Elongation at break	DIN 53504	%	238
Tear strength	DIN 53515	KN/m	4.4
Rebound resilience	DIN 53512	%	31
Compression set (24 Hours @ 70°C, 25%)	ISO 815	%	<5.9
Compression set (24 Hours @ 100°C, 25%)	ISO 815	%	<9.9
Minimum service temperature		°C	-30
Maximum service temperature		°C	+100

Main Characteristics

- Excellent elastic behaviour
- Excellent compression set characteristics
- Excellent fluid resistance
- Good rebound behaviour

Typical Products

- Low pressure hydraulic seals
- Energising rings for composite seals
- Pneumatic seals
- Static Seals & O-Rings

Typical Applications

Due to its excellent elasticity and rebound behaviour, NBR-B75 Nitrile elastomer can be used in a wide range of applications such as seals for low pressure hydraulic and pneumatic systems and/or applications where compression set of the sealing material may be a problem.

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and/or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.