

ATLAS BALL & BEARING CO LIMITED

NITRILE BALL DATA SHEET

Attributes

Synthetic rubber balls exhibit good resistance to petroleum based oils and fuels. It is the most commonly used elastomer for sealing devices due to its relatively low cost and flexibility.

Also known as

Buna N
NBR

Typical uses/applications

Diaphragm pumps
Air brakes

Mechanical/physical properties

Hardness	Shore A 20-100
Tensile strength	6.9-27.6 Mpa
General temperature range	-40° to + 105° C
Melting temperature	260° C
Specific gravity (density)	1.30 g/cm ³ (0.047 lb/in ³)
Shelf life	10 years

Normal tolerances

3/32" to 3/8"	Diameter +/- 0.003" (0.075mm) Roundness 0.003" (0.075mm)
7/16" to 1"	Diameter +/- 0.004" (0.1mm) Roundness 0.005" (0.125mm)
Over 1"	Diameter +/- 0.005" (0.125mm) Roundness 0.005" (0.125mm)

Solvent resistance

5 = excellent down to 1 = poor	
Acids	2
Caustics	3
Paraffinic Hydrocarbons	5
Aromatic Hydrocarbons	3
Chlorinated Hydrocarbons	1
Water	4
Ketones	2
Alcohols	5
Esters	1

www.atlasball.co.uk

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet.

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