

ASTM D2000 M2 BG714 A14 B14 EF11 EF21 EO14 EO34 F17

Nitrile 70 ShA

Nitrile / NBR / Buna-N

Nitrile is the most cost effective and commonly available O-ring material. Ideal for use as seals for pumps, drive belts, and other general engineering applications in the hydraulic and pneumatic industry. NBR is good for applications where the O-ring is exposed to fats, greases and animal or vegetable oils. For applications requiring contact with diesel or temperatures higher than 120°C you may wish to consider Polymax FKM (Viton®) O-rings.

Colour: Black

Operating temperature range: -30°C to 90°C

Physical Property Hardness	Test Method	Units	Typical Values
Hardness	ASTM D 1415	IRHD	71
Tensile Strength	ASTM D 412	Mpa	14.1
Elongation	ASTM D 412	%	330
Specific Gravity	ASTM D 297	g/cm ³	1.28 ±0.03
Compression Set 22h / 100°C	ASTM D 395 B	%	11
Low Temperature Resistance / Non-brittle after 3 mins at -40°C	ASTM D 2137 - TR10	°C	Pass

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	100	3	1	7	
ASTM Oil 901	ASTM D 471	70	100	4	-5	-4	-5
ASTM Oil 903	ASTM D 471	70	100	-3	-12	-11	8
Fuel A	ASTM D 471	70	23	-2	-13	-6	2
Fuel B	ASTM D 471	70	23	-11	-31	-21	21

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.