

## HNBR NORSOK

### *Hydrogenated Nitrile Butadiene Rubber*

A synthetic polymer that results from the hydrogenation of Nitrile rubber (NBR). This gives it superior mechanical characteristics, particularly high strength, greater thermal stability and helps reduce extrusion and wear. It can be used where temperatures are too high for standard Nitrile (NBR), but not sufficiently high to use fluorocarbon rubber (FFKM). This compound is designed to give the best performance for rapid gas decompression and meets the requirements of NORSOK standard M-710 Rev 2.

**Colour: Black**

**Operating temperature range: -20°C to 150°C**

Physical Property	Test Method	Units	Typical Values
Hardness	ISO 48	IRHD	91
Tensile Strength	ISO 37	Mpa	19.6
Elongation	ISO 37	%	224
Modulus at 100%	ISO 37	Mpa	13.2
Specific Gravity	ISO 2781	g/cm3	1.26
Compression Set 24h / 100°C	ISO 815	%	22.3
Tear Resistance	ISO 34	N/mm	38.1

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ISO 188	168	150	3	15.9	-32.6	
ASTM Oil 901	ISO 1817	168	100	-1			0.9
ASTM Oil 903	ISO 1817	168	100	-15			16.18

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. All sales subject to our standard terms [www.polymax.co.uk/sales-terms](http://www.polymax.co.uk/sales-terms)