POLYMAX
Leaders in rubber technology

Unit 75, Whitehill & Bordon Enterprise Park
Budds Lane, Bordon, Hampshire GU35 0FJ

Email: sales@polymax.co.uk Tel: +44 (0)1420 474 123

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