

COMPOUND: HN114 NORSOK M-710 rev 2 (MC)
POLYMER TYPE: HYDROGENATED NITRILE HNBR90 (+/-5°)

Physical Properties

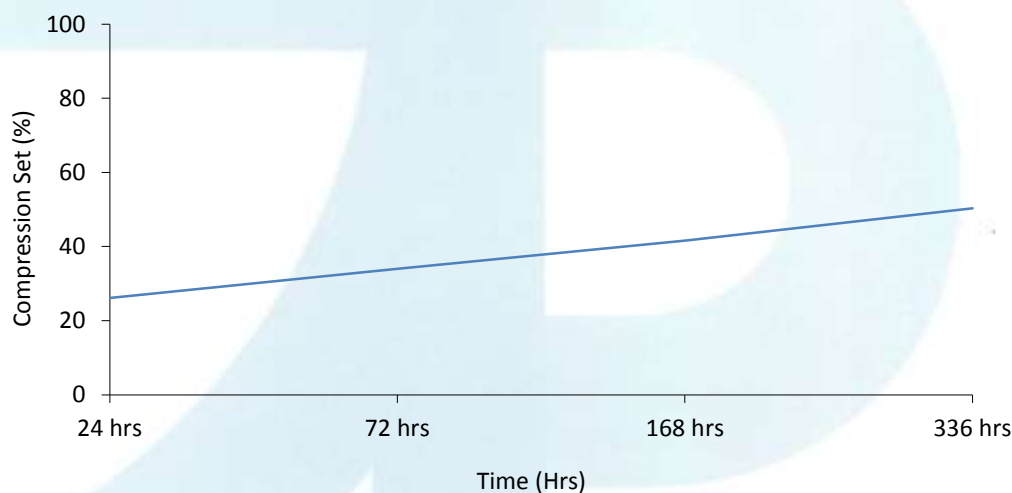
Property	Test Method	Units	Typical Values
HARDNESS	ISO 48	°IRHD	91
TENSILE STRENGTH	ISO 37	MPa	19.6
MODULUS @ 100%	ISO 37	MPa	13.2
ELONGATION @ BREAK	ISO 37	%	224
TEAR STRENGTH	ISO 34	N/mm	38.1
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.26

Description

Hydrogenated Nitrile rubber offers high levels of oil and heat resistance. It can be used where temperatures are too high for standard Nitrile, but not sufficiently high to use fluorocarbon rubber. This compound is designed to give the best performance for rapid gas decompression and meets the requirements of NORSOK standard M-710 Rev 2. It has excellent physical properties for a compound with such a high hardness.
Service Temperature -20°C (4°F) to 150°C (300°F).

Compression Set

Typical Compression Set Values in Air @ 100°C Under 25% Strain (ISO 815)





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NORSOK

NORSOK M710 (Rev. 2, October 2001) in respect of rapid gas decompression resistance in 10% Carbon Dioxide at 150 bar and 100°C

Compound	Summary Rating (Average of 3)	Result
HN114	1100	Pass

AIR-AGEING

Property (After 168 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+3
TENSILE CHANGE	ISO 188	%	+15.9
ELONGATION CHANGE	ISO 188	%	-32.6

Property (After 336 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+5
TENSILE CHANGE	ISO 188	%	+18.9
ELONGATION CHANGE	ISO 188	%	-46.8

ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
IRM 901 Oil	ISO 1817		
VOLUME CHANGE		%	+0.9
HARDNESS CHANGE		°IRHD	-1
IRM 903 Oil	ISO 1817		
VOLUME CHANGE		%	+16.18
HARDNESS CHANGE		°IRHD	-15
DISTILLED WATER	ISO 1817		
VOLUME CHANGE		%	Not Required
HARDNESS CHANGE		°IRHD	