COMPOUND: HN140 - Low Temperature (MN)
POLYMER TYPE: HYDROGENATED NITRILE HNBR80 (+/-5°)

Physical Properties

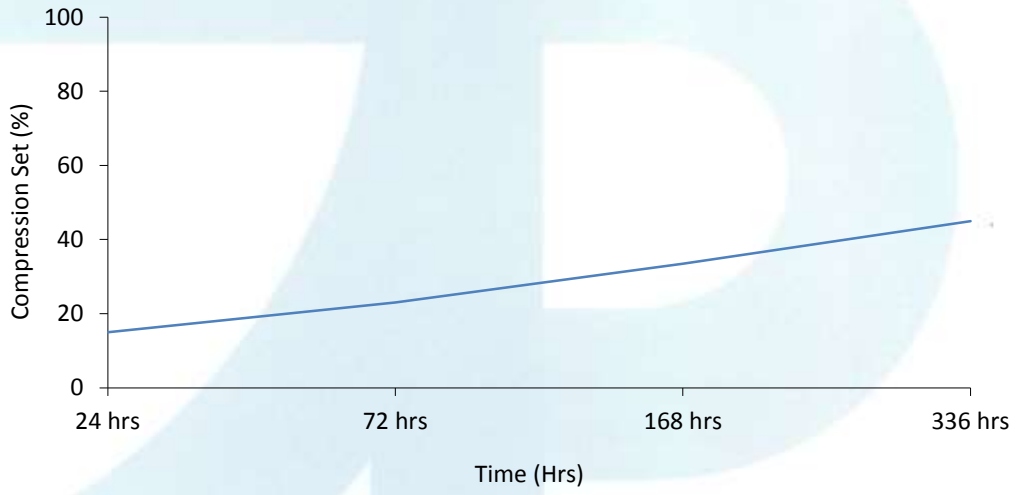
Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	80
TENSILE STRENGTH	ISO 37	MPa	17.7
MODULUS @ 100%	ISO 37	MPa	10.4
ELONGATION @ BREAK	ISO 37	%	220
TEAR STRENGTH	ISO 34	N/mm	29.5
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.26

Description

This Low Temperature 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 material offers good compression set resistance and very good abrasion resistance
Service Temperature -50°C (-58°F) to 150°C (302°F).

Compression Set

Typical Compression Set Values in Air @ 125°C Under 25% Strain (ISO 815)



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AIR-AGEING

Property (After 168 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+1
TENSILE CHANGE	ISO 188	%	-1.4
ELONGATION CHANGE	ISO 188	%	-35.0

Property (After 336 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+2
TENSILE CHANGE	ISO 188	%	-4.8
ELONGATION CHANGE	ISO 188	%	-35.0

ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
IRM 901 Oil	ISO 1817		
VOLUME CHANGE		%	-0.5
HARDNESS CHANGE		°IRHD	+3
IRM 903 Oil	ISO 1817		
VOLUME CHANGE		%	+22.4
HARDNESS CHANGE		°IRHD	-23