

**COMPOUND: HN109 (M8)**

**POLYMER TYPE: HYDROGENATED NITRILE HNBR80 (+/-5°)**

## Physical Properties

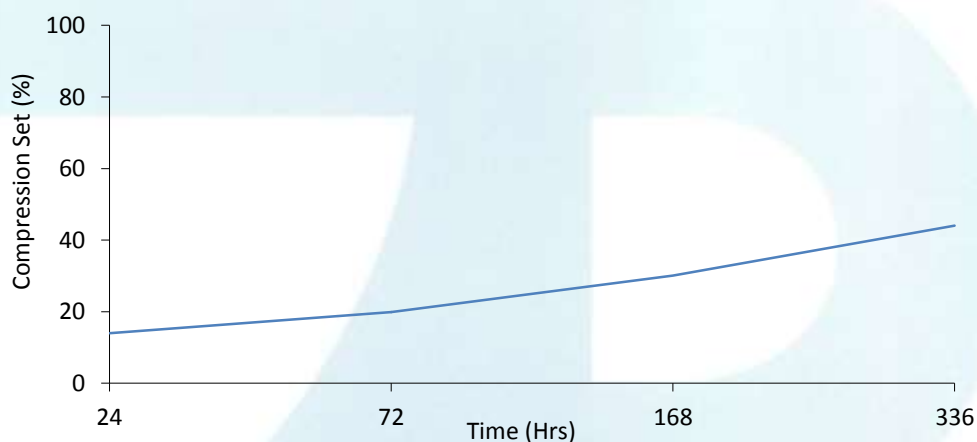
Property	Test Method	Units	Typical Values
HARDNESS	ISO 48	°IRHD	82
TENSILE STRENGTH	ISO 37	MPa	15.6
MODULUS @ 100%	ISO 37	MPa	2.4
ELONGATION @ BREAK	ISO 37	%	99
TEAR STRENGTH	ISO 34	N/mm	24.3
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.28

## 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. Service Temperature -20°C to +150°C

## Compression Set

Typical Compression Set Values in Air @ 150°C Under 25% Strain (ISO 815)



These properties should not be regarded as specifications, but only as typical properties of the material described. It is intended for use by persons having technical skills and understanding of the seal and gasket design. Since the conditions of use are outside our control, nor have we designed the product shape, we can make no warranties, express or implied and assume no liability in connection with any use of this information.

Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics.  
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### AIR-AGEING

Property (After 168 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+2
TENSILE CHANGE	ISO 188	%	+0
ELONGATION CHANGE	ISO 188	%	-9.1

Property (After 336 Hours @ 150°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+3
TENSILE CHANGE	ISO 188	%	-10.9
ELONGATION CHANGE	ISO 188	%	-6.1

### ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
<b>ASTM No 1 Oil</b>	ISO 1817		
VOLUME CHANGE		%	-1.6
HARDNESS CHANGE		°IRHD	+5
<b>IRM 903 Oil</b>	ISO 1817		
VOLUME CHANGE		%	+21.1
HARDNESS CHANGE		°IRHD	-18
<b>DISTILLED WATER</b>	ISO 1817		
VOLUME CHANGE		%	+3.7
HARDNESS CHANGE		°IRHD	-5