Polymer Type: Norsok M-710 Certified

Hydrogenated Nitrile (HNBR)



This HNBR compound is designed to give the best performance for rapid gas decompression (RGD) resistance and is certified to the NORSOK M-710 Rev 2 standard. It has excellent physical properties for a compound with such a high hardness. 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 (+4°F) to +150°C (+300°F).

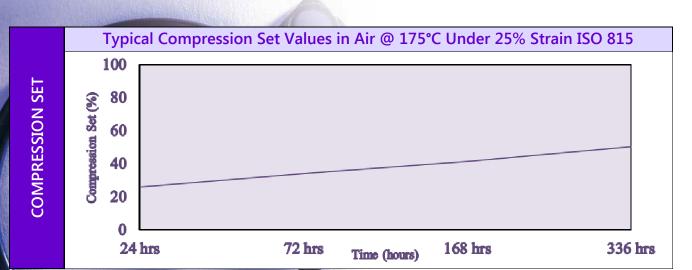
R E S

C

K

⋖	
U	
Š	S
S	ш
\rightarrow	\boldsymbol{r}
4	
_	~
Д.	ш
	ب
⋖	\mathbf{C}
_	
Ü	~
\cong	Д.
Д.	
$\overline{}$	

Property	Typical Values	Test Standard
Colour	Black	
Hardness (°IRHD)	91	ISO 48
Tensile Strength (MPa)	19.6	ISO 37
Modulus @ 100% (MPa)	13.2	ISO 37
Elongation @ Break (%)	224	ISO 37
Tear Strength (N/mm)	38.1	ISO 34
Specific Gravity (g/cm³)	1.26	ISO 2781



IORSOK

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 three)	Result
HN114	1100	Pass

MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: HN114 (page 2 of 2)

Polymer Type: Norsok M-710 Certified Hydrogenated Nitrile (HNBR)

	Property (after 168 hours @ 175°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	+3	ISO 188
g	Tensile Change (%)	+15.9	ISO 188
N N	Elongation Change (%)	-32.6	ISO 188
AG			
AIR-AGEING	Property (after 336 hours @ 175°C)	Typical Values	Test Standard
V	Hardness Change (°IRHD)	+5	ISO 188
	Tensile Change (%)	+18.9	ISO 188
	Elongation Change (%)	-46.8	ISO 188

	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
ION TEST	IRM 901 OIL		
	Volume Change (%)	0.90	ISO 1817
	Hardness Change (°IRHD)	-1	
ABSORP	IRM 903 OIL		
	Volume Change (%)	16.18	ISO 1817
	Hardness Change (°IRHD)	-15	

The properties given on this data sheet is derived from tests carried out by TRP Polymer Solutions Ltd. They 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.

Data Sheet	Page	Issue Date	Issue No.	Issue By
MD	2 OF 2	14.12.10	1	GV

