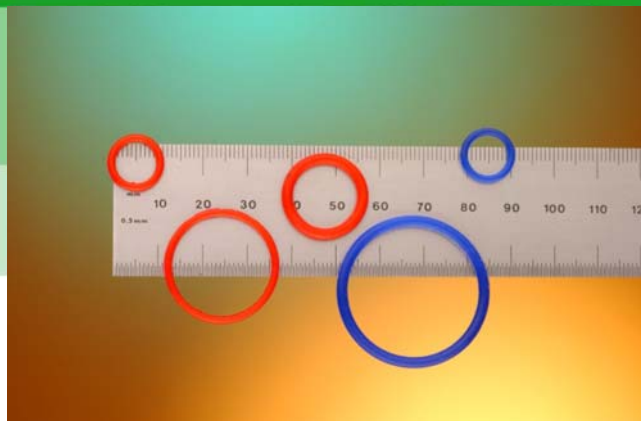


MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N°: HN109 (page 1 of 2)

Polymer Type: Hydrogenated Nitrile

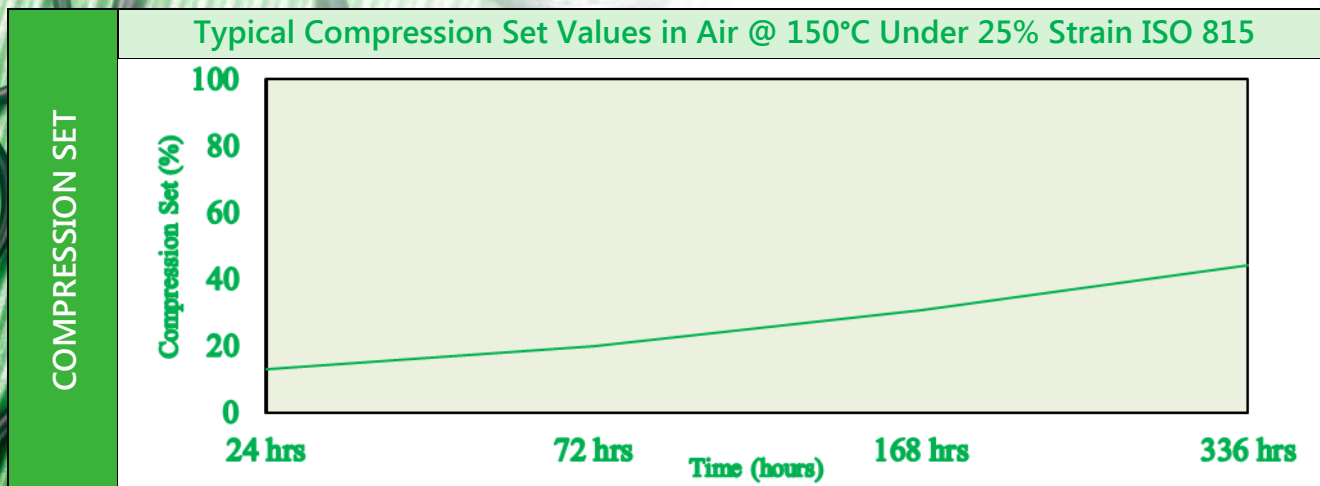


Description

This hydrogenated nitrile material 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 a fluorocarbon rubber. This material offers excellent compression set resistance and very good abrasion resistance.

Service Temperature -20°C (-4°F) to +150°C (+302°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	82	ISO 48
	Tensile Strength (MPa)	15.6	ISO 37
	Modulus @ 100% (MPa)	2.4	ISO 37
	Elongation @ Break (%)	99	ISO 37
	Tear Strength (N/mm)	24.3	ISO 34
	Specific Gravity (g/cm ³)	1.28	ISO 2781



H I G H P E R F O R M A N C E E L A S T O M E R S

MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: HN109 (page 2 of 2)

Polymer Type: Hydrogenated Nitrile

AIR-AGEING	Property (after 168 hours @ 150°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	+2	ISO 188
	Tensile Change (%)	0	ISO 188
	Elongation Change (%)	-9.1	ISO 188
	Property (after 336 hours @ 150°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	+3	ISO 188
	Tensile Change (%)	-10.9	ISO 188
	Elongation Change (%)	-6.1	ISO 188

ABSORPTION TEST	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
	IRM 901 OIL		
	Volume Change (%)	-1.6	ISO 1817
	Hardness Change (°IRHD)	+5	
	IRM 903 OIL		
	Volume Change (%)	+21.1	ISO 1817
	Hardness Change (°IRHD)	-18	
	DISTILLED WATER		
	Volume Change (%)	+3.7	ISO 1817
	Hardness Change (°IRHD)	-5	

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.

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