MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: C277 (page 1 of 2)

Polymer Type: Acrylonitrile Butadiene (Nitrile)

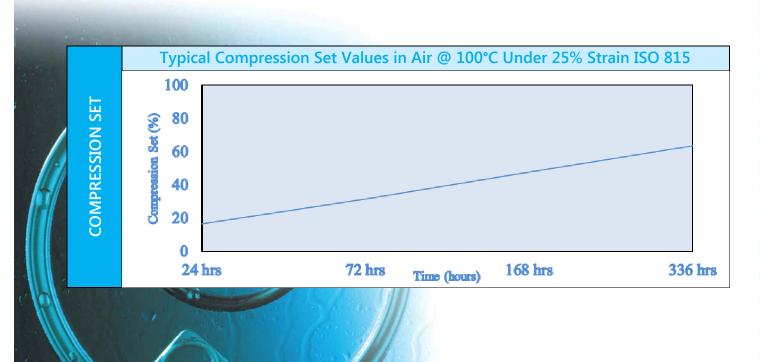
Description

This 65-75 IRHD (hardness) material is formulated with a low Nitrile polymer which allows a low temperature performance of -40°C (-40°F). It is not recommended for use in aromatic hydrocarbons or temperatures above +100°C (+212°F).



Formulation complies with FDA 21 CFR 177-2600e.

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	70	ISO 48
	Tensile Strength (MPa)	15.39	ISO 37
	Modulus @ 100% (MPa)	6.35	ISO 37
	Elongation @ Break (%)	226	ISO 37
	Tear Strength (N/mm)	68.71	ISO 34
	Specific Gravity (g/cm³)	1.20	ISO 2781





MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: C277 (page 2 of 2)

Polymer Type: Acrylonitrile Butadiene (Nitrile)

	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	+8	ISO 188
_G	Tensile Change (%)	+0.58	ISO 188
N N	Elongation Change (%)	-26.97	ISO 188
AG			
AIR-AG	Property (after 336 hours @ 100°C)	Typical Values	Test Standard
V	Hardness Change (°IRHD)	+11	ISO 188
	Tensile Change (%)	+0.58	ISO 188
	Elongation Change (%)	-45.71	ISO 188

	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
ABSORPTION TEST	IRM 901 OIL		
	Volume Change (%)	+4.51	ISO 1817
	Hardness Change (°IRHD)	+1	
	IRM 903 OIL		
	Volume Change (%)	+38.49	ISO 1817
	Hardness Change (°IRHD)	-15	
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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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