

MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N°: C227 (page 1 of 3)

Polymer Type: Acrylonitrile Butadiene
(Nitrile) Low Temperature



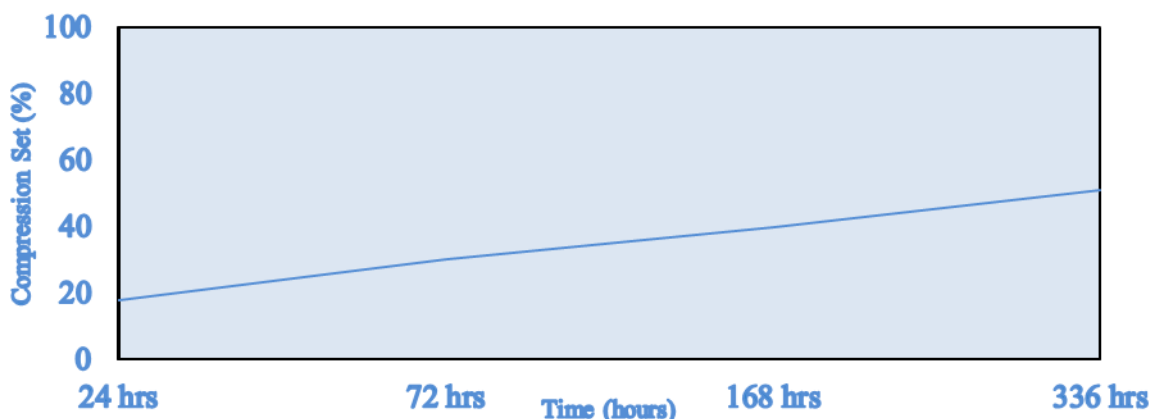
Description

A black Acrylonitrile compound designed to give a superior low temperature flexibility approximately 25°C (77°F) lower than standard nitrile grades. It is suitable for a wide range of industrial applications particularly involving oils and aqueous solutions.

This compound remains flexible down to -40°C (-40°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	80	ISO 48
	Tensile Strength (MPa)	15.5	ISO 37
	Modulus @ 100% (MPa)	10.6	ISO 37
	Elongation @ Break (%)	160	ISO 37
	Tear Strength (N/mm)	32.6	ISO 34
	Specific Gravity (g/cm ³)	1.27	ISO 2781

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



ULTRA LOW TEMPERATURE DYNAMIC SEALING

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AIR-AGEING	Property (after 168 hours @ 125°C)		Typical Values	Test Standard
	Hardness Change (°IRHD)		+9	ISO 188
	Tensile Change (%)		-4.5	ISO 188
	Elongation Change (%)		-71.6	ISO 188
	Property (after 336 hours @ 125°C)		Typical Values	Test Standard
	Hardness Change (°IRHD)		+10	ISO 188
	Tensile Change (%)		+17.0	ISO 188
	Elongation Change (%)		-87.2	ISO 188

ABSORPTION TEST	Property (after 168 hours @ 100°C)		Typical Values	Test Standard
	IRM 901 OIL			
	Volume Change (%)		-0.10	ISO 1817
	Hardness Change (°IRHD)		+1	
	IRM 903 OIL			
	Volume Change (%)		+31.4	ISO 1817
	Hardness Change (°IRHD)		-8	

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.

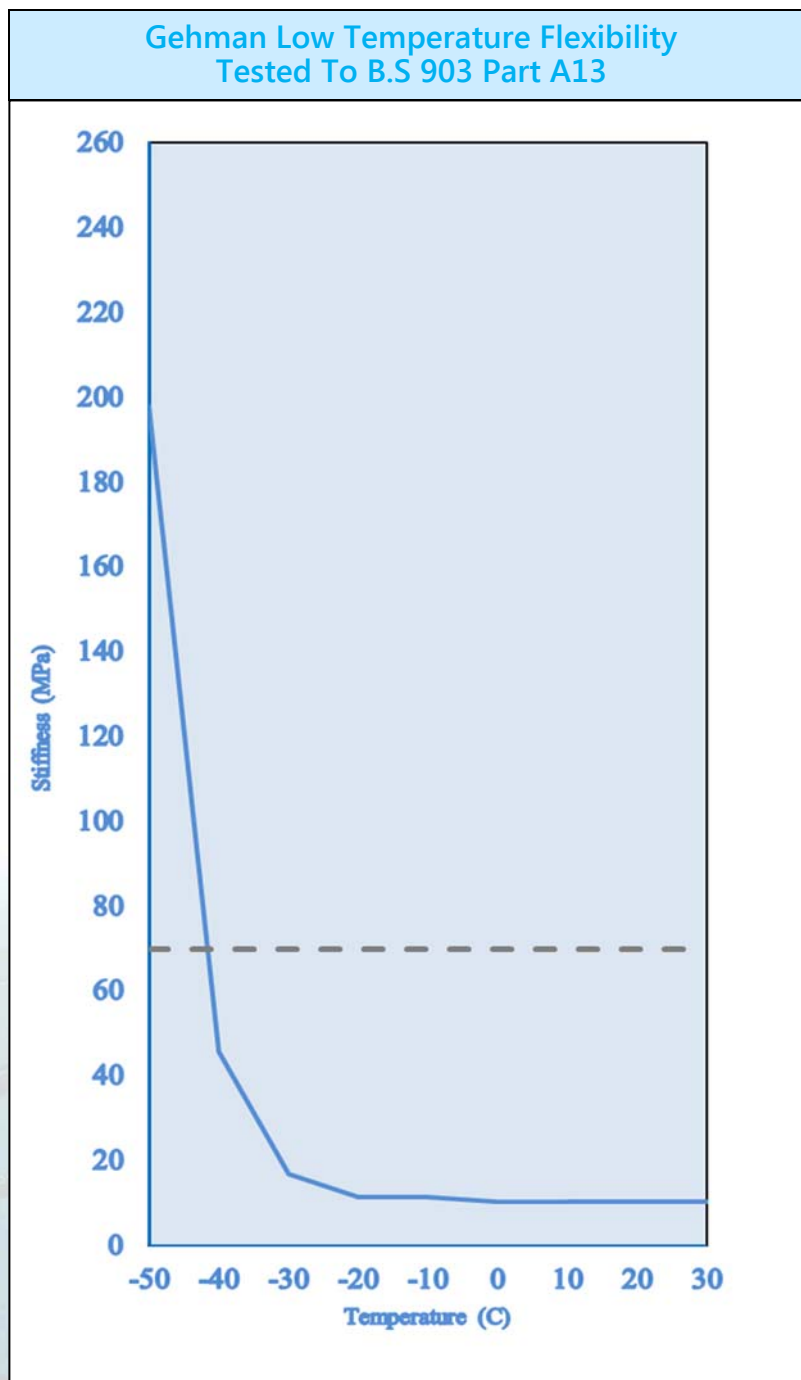
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