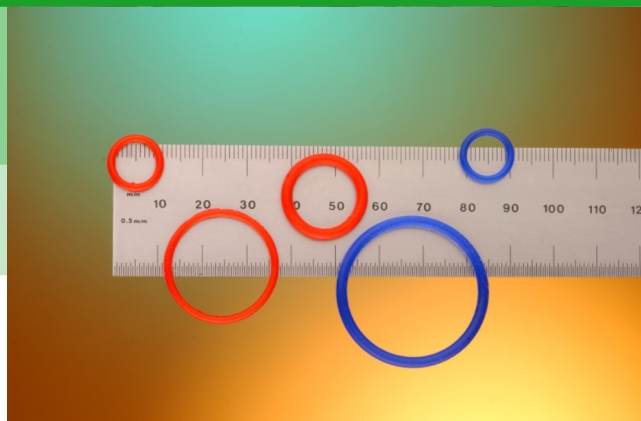


# MATERIAL TEST DATA

TRP COMPOUND REFERENCE  
N°: F321 (page 1 of 2)

Polymer Type: FKM



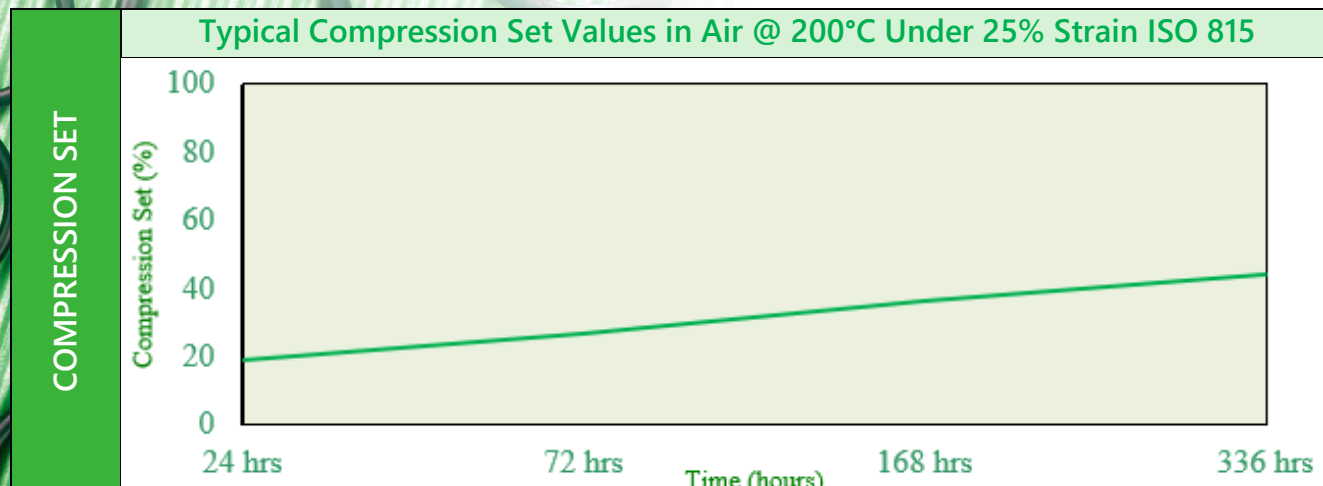
## Description

A blue metal detectable and X-Ray detectable Fluorocarbon compound. This material is suitable for a wide range of industrial applications, particularly that of food production. Due to the unique formulation, this FKM provides a high level of resistance to Steam in place (SIP) procedures along with excellent resistance to Cleaning in place (CIP) procedures.

**Service Temperature: -15°C (5°F) to +200°C (+392°F).**  
This material complies with and is tested to the following standards:

- 21 CFR177.2600 (e & f) (FDA)

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Blue	
	Hardness (°IRHD)	72	ISO 48
	Hardness (°ShA)	71	ISO 48
	Tensile Strength (MPa)	12.3	ISO 37
	Modulus @ 100% (MPa)	5.93	ISO 37
	Elongation @ Break (%)	210	ISO 37
	Tear Strength (N/mm)	22.1	ISO 34
	Specific Gravity (g/cm <sup>3</sup> )	2.21	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°: F321 (page 2 of 2)

Polymer Type: FKM Type 1 (Copolymer)

ABSORPTION TEST	Property	Typical Values	Test Standard
	Water (After 72Hours @ 200°C)		
	Weight Change (%)	9.89	ISO1817
	Compression Set, O-Ring (%)	22.8	ISO 815
	2% Nitric Acid (After 72Hours @ 90°C)		
	Volume Change (%)	3.67	ISO1817
	Mass Change (%)	1.87	ISO1817
	Hardness Change (°IRHD)	+1	ISO1817
	4% NaOH (After 72Hours @ 90°C)		
	Volume Change (%)	1.55	ISO1817
	Mass Change (%)	0.69	ISO1817
	Hardness Change (°IRHD)	+4	ISO1817

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

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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