MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N°: F227 (page 1 of 2)

Polymer Type: Norsok M-710 Certified low Temperature Fluorocarbon Rubber (FKM)

Description

This low temperature fluorocarbon rubber compound has excellent rapid gas decompression resistance (RGD) and is certified to the NORSOK M -710 Rev. 2 standard. It has outstanding physical properties for a compound with such a high hardness in combination with improved low temperature performance. It is suitable for sealing against a wide range of oils, fuels and chlorinated solvent.

Service Temperature –40°C (-40°F) to 200°C (390°F).

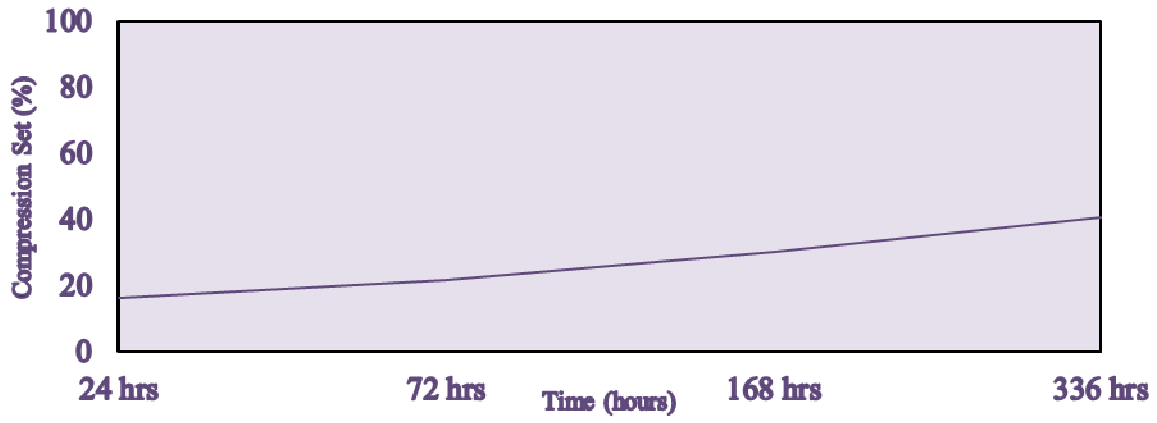
OIL & GAS INDUSTRY / RGD RESISTANT

TYPICAL PHYSICAL PROPERTIES

Property	Typical Values	Test Standard
Colour	Black	
Hardness (°IRHD)	90	ISO 48
Tensile Strength (MPa)	19.5	ISO 37
Modulus @ 100% (MPa)	9.66	ISO 37
Elongation @ Break (%)	185	ISO 37
Tear Strength (N/mm)	22.8	ISO 34
Specific Gravity (g/cm^3)	1.82	ISO 2781
Temperature Retraction TR10 (°C)	-29	ISO 2921

COMPRESSION SET

Typical Compression Set Values in Air @ 175°C Under 25% Strain ISO 815



NORSOK

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
F227	1000	Pass

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MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: F227 (page 2 of 2)

Polymer Type: Norsok M-710 Certified Low Temperature Fluorocarbon Rubber (FKM)

AIR-AGEING	Property (after 168 hours @ 175°C)	Typical Values	Test Standard
	Hardness Change (°IRHD)	+2	ISO 188
	Tensile Change (%)	+1.02	ISO 188
	Elongation Change (%)	-4.86	ISO 188
	Property (after 336 hours @ 175°C)	**Typical Values**	**Test Standard**
	Hardness Change (°IRHD)	+1	ISO 188
	Tensile Change (%)	-0.01	ISO 188
	Elongation Change (%)	-12.43	ISO 188

ABSORPTION TEST	Property (after 168 hours @ 100°C)	Typical Values	Test Standard
	IRM 901 OIL		
	Volume Change (%)	+0.35	ISO 1817
	Hardness Change (°IRHD)	-2	
	IRM 903 OIL		
	Volume Change (%)	+0.78	ISO 1817
	Hardness Change (°IRHD)	-4	
	DISTILLED WATER		
	Volume Change (%)	+2.82	ISO 1817
	Hardness Change (°IRHD)	-6	

OIL & GAS INDUSTRY / RGD RESISTANT

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