COMPOUND: F227 NORSOK M710 rev2 Low Temp (VE)
POLYMER TYPE: Fluorocarbon Rubber FKM90 (+/-5°)

Physical Properties

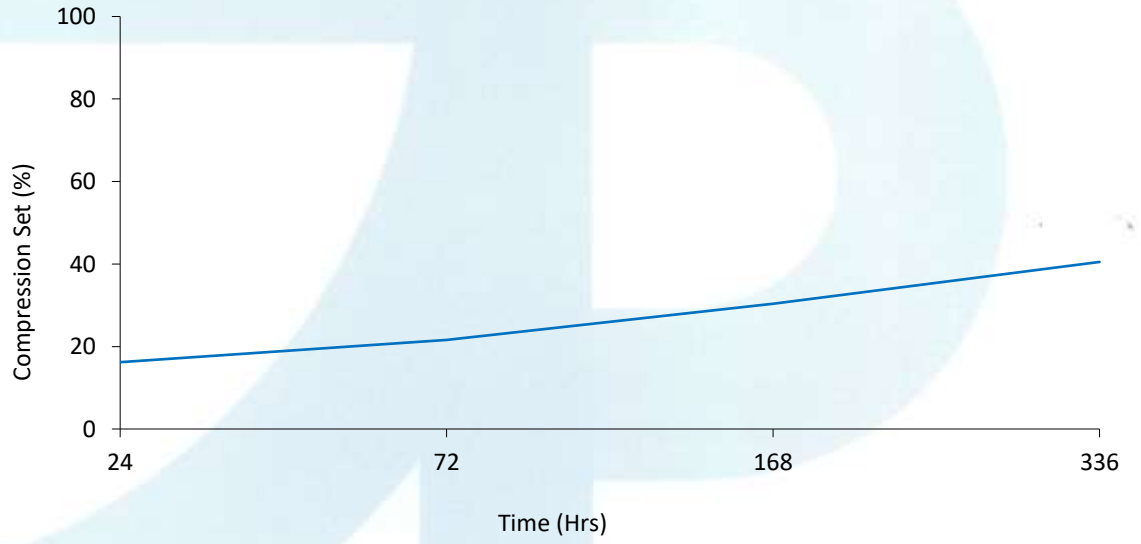
Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	90
TENSILE STRENGTH	ISO 37	MPa	19.50
MODULUS @ 100%	ISO 37	MPa	9.66
ELONGATION @ BREAK	ISO 37	%	185
TEAR STRENGTH	ISO 34	N/mm	22.80S
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.82
LOW TEMPERATURE TR10	ISO 2921	°C	-29.0

Description

This compound is designed to give the best performance for rapid gas decompression and formulated to meet the requirements of NORSOK standard M-710 Rev 2. It has excellent physical properties for a compound with such excellent low temperature performance and is suitable for sealing against a wide range of oils, fuels and chlorinated solvent. Service Temperature -44°C (-47°F) to 200°C (390°F).

Compression Set

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



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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 3)	Result
F227	1000	Pass

AIR-AGEING

Property (After 168 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+2
TENSILE CHANGE	ISO 188	%	+1.02
ELONGATION CHANGE	ISO 188	%	-4.86

Property (After 336 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+1
TENSILE CHANGE	ISO 188	%	-0.01
ELONGATION CHANGE	ISO 188	%	-12.43

ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
ASTM No 1 Oil	ISO 1817		
VOLUME CHANGE		%	+0.35
HARDNESS CHANGE		°IRHD	-2
IRM 903 Oil	ISO 1817		
VOLUME CHANGE		%	+0.78
HARDNESS CHANGE		°IRHD	-4
DISTILLED WATER	ISO 1817		
VOLUME CHANGE		%	+2.82
HARDNESS CHANGE		°IRHD	-6