

COMPOUND: S311 (N6)

POLYMER TYPE: HIGH TEMPERATURE FLUOROSILICONE 75 (+/-5°)

Physical Properties

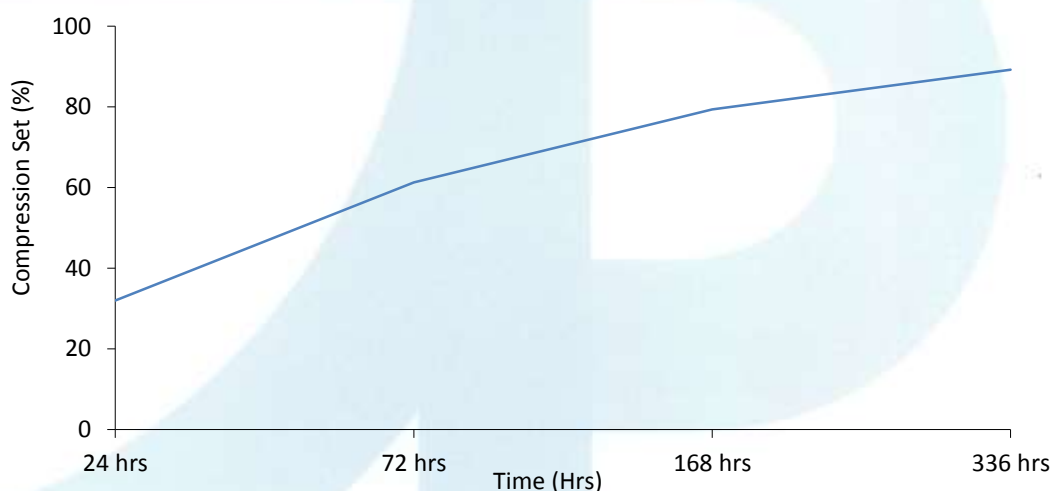
Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	72
TENSILE STRENGTH	ISO 37	MPa	5.64
MODULUS @ 100%	ISO 37	MPa	3.31
ELONGATION @ BREAK	ISO 37	%	212
TEAR STRENGTH	ISO 34	N/mm	11.47
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.56

Description

This Fluorosilicone compound has significantly greater chemical resistance than silicone. It has a good resistant to hydrocarbon fluids and solvents. However, due to its high friction and limited abrasion resistance, Fluorosilicones are generally recommended for static applications. Service Temperature -50°C (-58°F) to +200°C (392°F).

Compression Set

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



These properties 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.

Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics.
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AIR-AGEING

Property (After 168 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+8
TENSILE CHANGE	ISO 188	%	+43.79
ELONGATION CHANGE	ISO 188	%	-60.19

Property (After 336 Hours @ 175°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 188	°IRHD	+11
TENSILE CHANGE	ISO 188	%	-1.48
ELONGATION CHANGE	ISO 188	%	-62.94

ABSORPTION TEST

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
IRM 901 Oil	ISO 1817		
VOLUME CHANGE		%	-0.63
HARDNESS CHANGE		°IRHD	+5
IRM 903 Oil	ISO 1817		
VOLUME CHANGE		%	+0.22
HARDNESS CHANGE		°IRHD	+2
DISTILLED WATER	ISO 1817		
VOLUME CHANGE		%	+5.28
HARDNESS CHANGE		°IRHD	+1

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