

**COMPOUND: F366 FDA BLACK (VW)**  
**POLYMER TYPE: Fluorocarbon Rubber FKM70 (+/-5°)**

## Physical Properties

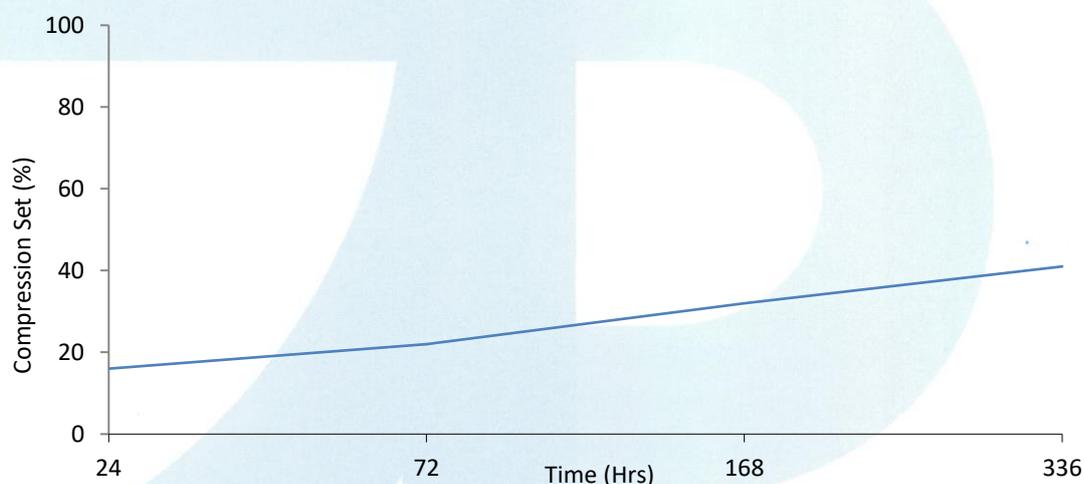
Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	67
TENSILE STRENGTH	ISO 37	MPa	22.2
MODULUS @ 100%	ISO 37	MPa	3.31
ELONGATION @ BREAK	ISO 37	%	315
TEAR STRENGTH	ISO 34	N/mm	24.2
SPECIFIC GRAVITY	ISO 2781	g/cm <sup>3</sup>	2.03

## Description

A black bisphenol free Fluorocarbon compound. This material is suitable for a wide range of industrial applications, particularly that of food production. Due to the unique formation, this FKM provides a high level of resistance to Steam in place (SIP) procedures along with excellent resistance to Cleaning in place (CIP) procedures. This material is tested to the requirements of FDA 21 CF 177-2600 (e) (f). Service Temperatures -15°C (+5°F) to +200°C (+392°F)

## Compression Set

Typical Compression Set Values in Air @ 200°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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### **ABSORPTION TEST**

Property	Test Standard	Units	Typical Values
<b>Water (After 72Hours @ 200°C)</b>			
WEIGHT CHANGE	ISO 1817	%	5.84
COMPRESSION SET, O-RING	ISO 815	%	40.0
<b>2% Nitric Acid (After 72Hours @ 90°C)</b>			
Property	Test Standard	Units	Typical Values
VOLUME CHANGE	ISO 1817	%	4.52
MASS CHANGE	ISO 1817	%	2.22
HARDNESS CHANGE	ISO 1817	°IRHD	-4.7
<b>4% NaOH (After 72Hours @ 90°C)</b>			
Property	Test Standard	Units	Typical Values
VOLUME CHANGE	ISO 1817	%	1.31
MASS CHANGE	ISO 1817	%	0.46
HARDNESS CHANGE	ISO 1817	°IRHD	-4.5