



MATERIAL TEST DATA SHEET MD45 – 15/12/2011 Page 1 of 2

## COMPOUND: F207 ULTRA LOW TEMPERATURE (VM) POLYMER TYPE: Fluorocarbon Rubber FKM75 (+/-5°)

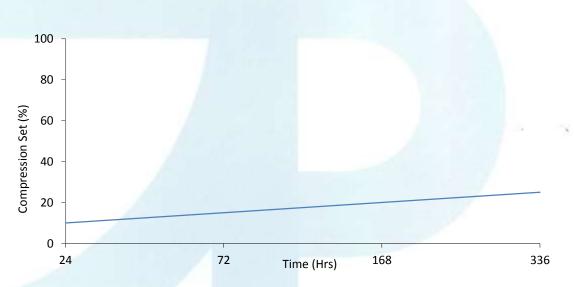
# **Physical Properties**

Property	Test	Units	Typical Values	
	Method			
COLOUR			Black	
HARDNESS	ISO 48	°IRHD	73	
TENSILE STRENGTH	ISO 37	MPa	16.9	
MODULUS @ 100%	ISO 37	MPa	6.6	
ELONGATION @ BREAK	ISO 37	%	185	
TEAR STRENGTH	ISO 34	N/mm	14.5	
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.85	
LOW TEMPERATURE RETRACTION (TR10)	ISO 2921	°C	-40	

## Description

A compound formulated to give the best low temperature performance possible from a Fluorocarbon rubber. Suitable for sealing against a wide range of oils, fuels and chlorinated solvent. It gives excellent resistance to concentrated acids and aqueous chemicals at elevated temperatures. Service Temperatures  $-55^{\circ}C(-67^{\circ}F)$  to  $+200^{\circ}C$  (390°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. Uncontrolled Copy.





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#### **AIR-AGEING** Property **Test Standard** Units **Typical Values** (After 168 Hours @ 175°C) ISO 188 °IRHD HARDNESS CHANGE +1 **TENSILE CHANGE** ISO 188 +2.4 % **ELONGATION CHANGE** ISO 188 % +1.1 Property **Test Standard** Units **Typical Values** (After 336 Hours @ 175°C) HARDNESS CHANGE ISO 188 °IRHD +1 **TENSILE CHANGE** ISO 188 +2.9 % **ELONGATION CHANGE** ISO 188 % +1.1 **ABSORPTION TEST** Test Standard **Typical Values** Property Units (After 168 Hours @ 100°C) ASTM No 1 Oil ISO 1817 **VOLUME CHANGE** % -0.3 °IRHD HARDNESS CHANGE -1 IRM 903 Oil ISO 1817 **VOLUME CHANGE** % -0.1 HARDNESS CHANGE °IRHD -3 **DISTILLED WATER** ISO 1817 **VOLUME CHANGE** % +1.2 HARDNESS CHANGE °IRHD -1

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