

F1

Material Datasheet

V-75-27



V-75-27 FKM is a black A-type fluorocarbon that features the inherent oil and grease compatibility of NBR, but with increased suitability for higher speed, higher temperature applications.

Colour
Black



Dynamics
Excellent



Oil Compatibility
V.Good



Operating Temperature

-20 to +200°C*

Storage Stability

10 Years (ISO 2230)

*Excursions to
(Gear Oil +150°C Max.)

ASTM D2000 M2HK 710 A1-10 B37 B38 EF31 E078 Z1: HARDNESS 75±5 SHORE A

Property	Test Standard	Units	Specification [Value]
Hardness	ASTM D2240	Shore A	75±5 [75.1]
Tensile strength	ASTM D412	MPa	10 Min. [12.45]
Elongation at break	ASTM D412	%	175 Min. [242]
A1-10 HEAT AGEING 70H AT 250°C			
Hardness change	ASTM D573	Shore A	+10 Max. [+4.4]
Tensile strength change		%	-25 Max. [+6]
Elongation change		%	-25 Max. [0]
B37 COMPRESSION SET 22H AT 175°C			
Compression set	ASTM D395 Method B	%	50 Max. [15]
B38 COMPRESSION SET 22H AT 200°C			
Compression set	ASTM D395 Method B	%	50 Max. [21]
EF31 RESISTANCE TO FUEL C 70H AT 23°C			
Hardness change	ASTM D471	Shore A	+5 [-3.8]
Tensile strength change		%	-25 Max. [-12]
Elongation change		%	-20 Max. [+4]
Volume change		%	0 to +10 [+4.1]
E078 SERVICE LIQUID NO.101 70H AT 200°C			
Hardness change	ASTM D471	Shore A	-15 to +5 [-10]
Tensile strength change		%	-40 Max. [-6]
Elongation change		%	-20 Max. [+11]
Volume change		%	0 to +10 [+13.8]
E016 IRM 901 OIL RESISTANCE 70H AT 150°C			
Hardness change	ASTM D471	Shore A	[+2]
Tensile strength change		%	[-4.8]
Elongation change		%	[0.5]
Volume change		%	[+0.1]
E036 IRM 903 OIL RESISTANCE 70H AT 150°C			
Hardness change	ASTM D471	Shore A	[-4.8]
Tensile strength change		%	[-21.1]
Elongation change		%	[-14.5]
Volume change		%	+10 Max. [+3.7]
A1-11 HEAT AGEING 70H AT 275°C			
Hardness change	ASTM D573	Shore A	[+8.5]
Tensile strength change		%	[-23]
Elongation change		%	[+5]