



Material Datasheet V-75-27

Oil Compatibility

V.Good

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.

Dynamics

Excellent

Colour

Black

Operating Temperature -20 to +200°C× Storage Stability 10 Years (ISO 2230)

*Excursions to (Gear Oil +150°C Max.)

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 Tensile strength change	ASTM D573	Shore A	[+8.5]
		%	[-23]
Elongation change		%	[+5]

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