

FKM Elastomer Compound 514GJ

General Features

- Good compression set resistance
- Excellent heat resistance
- Excellent general chemical resistance, including oxygenated (alcohol containing) fuels
- Moderate low-temperature flexibility

Application

A highly fluorinated FKM elastomer with excellent general chemical resistance, including coolants, lubricating oils, and other moderately high pH environments.

514GJ provides good resistance to all petroleum and ester based oils and lubricants while providing good compression set resistance, and moderate low-temperature flexibility.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	72	D 2240
Tensile Strength	MPa		14.2	D 412
Elongation at break	%		270	D 412
100% Modulus	MPa		4	D 412
Tear Strength, Die C	kN/m		15.9	D 624
Specific Gravity			1.92	D 297

Air Age, 70h @ 250°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-3.9
Δ Elongation	%	1.5

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Reference Fuel C, 70h @ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	-2.7
Δ Elongation	%	-0.4
Δ Volume	%	1.9

Reference Fuel C/Ethanol, 70/30, 70h @ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-3
Δ Tensile Strength	%	-15.3
Δ Elongation	%	-5.2
Δ Volume	%	2.7

Reference Fuel FAM B, 70h @ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-3
Δ Tensile Strength	%	-16.6
Δ Elongation	%	3
Δ Volume	%	2.9

Diesel Fuel, 70h @ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-1.2
Δ Elongation	%	-3.9
Δ Volume	%	0.3

Service Liquid 101, 70h @ 200°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-4
Δ Tensile Strength	%	-5.3
Δ Elongation	%	-2.2
Δ Volume	%	4.4

Compression Set Resistance, per ASTM D 395, Method B

Property	Unit	Obtained
22h @ 23°C	%	8.7
22h @ 175°C	%	20.5
22h @ 200°C	%	31.9

Low temperature, per ASTM D 2137

Property	Typical
Non-brittleness, 3 min @ -25°C	Pass

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