

# FKM Elastomer Compound 514FB

## General Features

- Excellent compression set resistance
- Superior heat resistance
- Excellent resistance to water, steam, and aqueous acid/base environments, including Organic acid technology automotive coolants
- Excellent general chemical resistance and resistance to oxygenated (alcohol-containing) fuels

## Application

514FB provides overall excellent general chemical resistance, including resistance to all types of coolants, oils and all types of fuels, including those oxygenated with alcohols and ethers.

## ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	72	D 2240
Tensile Strength	MPa	10 min	20.3	D 412
Elongation at break	%	175 min	331	D 412
100% Modulus	MPa		4	D 412
Tear Strength, Die C	kN/m		30.5	D 624
Specific Gravity		1.82 ± 0.02	1.82	D 297

Air Age, 70h @ 250°C per ASTM D 573

Property	Unit	Obtained
Δ Hardness	Shore A	2
Δ Tensile Strength	%	-28.6
Δ Elongation	%	-2.4

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Reference Fuel C, 1008h @ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-6
Δ Tensile Strength	%	-10.7
Δ Elongation	%	-12.9
Δ Volume	%	11.5

Caterpillar ELC Coolant, 168h @ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-3
Δ Tensile Strength	%	-17.1
Δ Elongation	%	1.2
Δ Volume	%	2.5

Caterpillar ELC Coolant, 1008h  
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	-41.8
Δ Elongation	%	-31.7
Δ Volume	%	7.7

Dexron VI ATF, 168h @  
150°C per ASTM D 471

Property	Unit	Obtained
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	-49.6
Δ Elongation	%	-44
Δ Volume	%	2.1

Compression Set Resistance,  
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 23°C	%	9.4
22h @ 175°C	%	8.1
22h @ 200°C	%	8.5

Low Temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-17

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