

FKM Elastomer Compound 514AD

General Features

- Good compression set resistance
- Excellent heat resistance
- Very good general chemical resistance and heat resistance
- Good low-temperature flexibility

Application

A general-purpose FKM elastomer with very good general chemical resistance, including coolants, lubricating oils, and other moderately high pH environments.

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

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	72	D 2240
Tensile Strength	MPa	10 min	14.5	D 412
Elongation at break	%	175 min	279	D 412
100% Modulus	MPa		4.0	D 412
Tear Strength, Die C	kN/m		18.4	D 624
Specific Gravity			1.84	D 297

Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	0.3
Δ Elongation	%	-13.3

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

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	-15.2
Δ Elongation	%	-9.7
Δ Volume	%	3.7

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

Property	Unit	Typical
Δ Hardness	Shore A	-7
Δ Tensile Strength	%	-11.8
Δ Elongation	%	-9.7
Δ Volume	%	12.4

Compression Set Resistance,
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 175°C	%	9.8
22h @ 200°C	%	19.0

Low temperature, per ASTM D 2137

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

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