

Qmonix® EPDM Elastomer Compound 560ND

General Features

- Superior compression set resistance
- Excellent resistance to all aqueous media; water, steam, aqueous acids/bases, as well as glycol-based coolants, including organic acid technology coolants
- Very good low-temperature performance
- Excellent resistance to glycol-based brake fluids

Application

Designed for use in Transportation (Automotive) applications requiring contact with aqueous and glycol-based solutions such as coolants and brake fluids.

560ND offers excellent compression set resistance, heat resistance, and low-temperature flexibility.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile Strength	MPa	10 min	16.9	D 412
Elongation at break	%		213	D 412
100% Modulus	MPa		4.9	D 412
Tear Strength, Die C	kN/m		16.9	D 624
Specific Gravity			1.12	D 297

Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	0
Δ Elongation	%	-4.5

Air Age, 168h @ 125°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	10.3
Δ Elongation	%	4

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Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	18.3
Δ Elongation	%	-0.5
Δ Volume	%	0.8

Caterpillar ELC, 1008h
@ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	2.5
Δ Elongation	%	1.9
Δ Volume	%	-0.2

DOT 3, 168h @ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	-0.8
Δ Elongation	%	-6.5
Δ Volume	%	5.4

Diesel Exhaust Fluid(DEF), 168h
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-9
Δ Tensile Strength	%	-0.8
Δ Elongation	%	-24
Δ Volume	%	53.7

DexCool Coolant, 168h
@ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	16.3
Δ Elongation	%	-7
Δ Volume	%	0

DexCool Coolant, 1008h
@ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	9.5
Δ Elongation	%	-8.5
Δ Volume	%	0.1

Compression Set Resistance,
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	6.4
70h @ 100°C	%	8.8
22h @ 125°C	%	8.3
70h @ 125°C	%	11.1

Low temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-53

Contact us today to learn more

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