

Qmonix® EPDM Elastomer Compound 560NF

General Features

- Excellent compression set resistance
- Very good resistance to all aqueous media; water, steam, aqueous acids/bases, as well as glycol-based coolants, including organic acid technology coolants
- Excellent 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.

560NF 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	16.7	D 412
Elongation at break	%		219	D 412
100% Modulus	MPa		4.7	D 412
Tear Strength, Die C	kN/m		15.8	D 624
Specific Gravity			1.11	D 297

Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	18.4
Δ Elongation	%	4.8

Air Age, 168h @ 125°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	18.4
Δ Elongation	%	4.8

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Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	10.9
Δ Elongation	%	4.3
Δ Volume	%	0.1

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

Property	Unit	Typical
Δ Hardness	Shore A	1
Δ Tensile Strength	%	6.4
Δ Elongation	%	0.5
Δ Volume	%	-1.1

DOT 3 Brake Fluid, 168h @ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-3
Δ Tensile Strength	%	13.6
Δ Elongation	%	-0.5
Δ Volume	%	5.2

Diesel Exhaust Fluid (DEF), 168h @ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-7
Δ Tensile Strength	%	10.2
Δ Elongation	%	-12.5
Δ Volume	%	47.9

DexCool Coolant, 70h @ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	21.8
Δ Elongation	%	3.4
Δ Volume	%	-0.4

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

Property	Unit	Typical
Δ Hardness	Shore A	1
Δ Tensile Strength	%	16.3
Δ Elongation	%	8.7
Δ Volume	%	-0.4

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

Property	Unit	Typical
Δ Hardness	Shore A	3
Δ Tensile Strength	%	15
Δ Elongation	%	-1.4
Δ Volume	%	-0.7

DexCool Coolant, 70h @ 135°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-5.2
Δ Elongation	%	-10.6
Δ Volume	%	1

Property	Unit	Typical
22h @ 100°C	%	8.4
70h @ 100°C	%	10.4
22h @ 125°C	%	7.1
70h @ 125°C	%	11.1
22h @ 150°C	%	10.9
70h @ 150°C	%	19

Compression Set Resistance, per ASTM D 395, Method B

Low Temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-50

Contact us today to learn more

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800.927.1422 • mnrubber.com
marketing@mnrubber.com

