Minnesota Rubber & Plastics
Quadion LLC

Qmonix® EPDM Elastomer Compound 559PE

General Features

- Superior compression set resistance
- Very good heat resistance
- Excellent resistance to water, steam, and aqueous acid/base environments
- Excellent resistance to chlorine and chloramine disinfectants
- Good low-temperature performance
- Water, food, and beverage certifications

Application

Developed for use in potable water and food and beverage applications.

559PE exhibits excellent resistance to water containing chlorine and chloramine disinfection as well as to a variety aqueous food products.

559PE has certifications for health, hygiene, and safety in food and water applications.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile Strength	MPa	10 min	10.1	D 412
Elongation at break	%		134	D 412
100% Modulus	MPa		6.7	D 412
Tear Strength, Die C	kN/m		12.1	D 624
Specific Gravity			1.12	D 297

Certifications

NSF/ANSI Standard 61

FDA 21 CFR 177.2600

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Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	-2.2
Δ Elongation	%	-0.7

Air Age, 70h @ 125°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	6.3
Δ Elongation	%	3

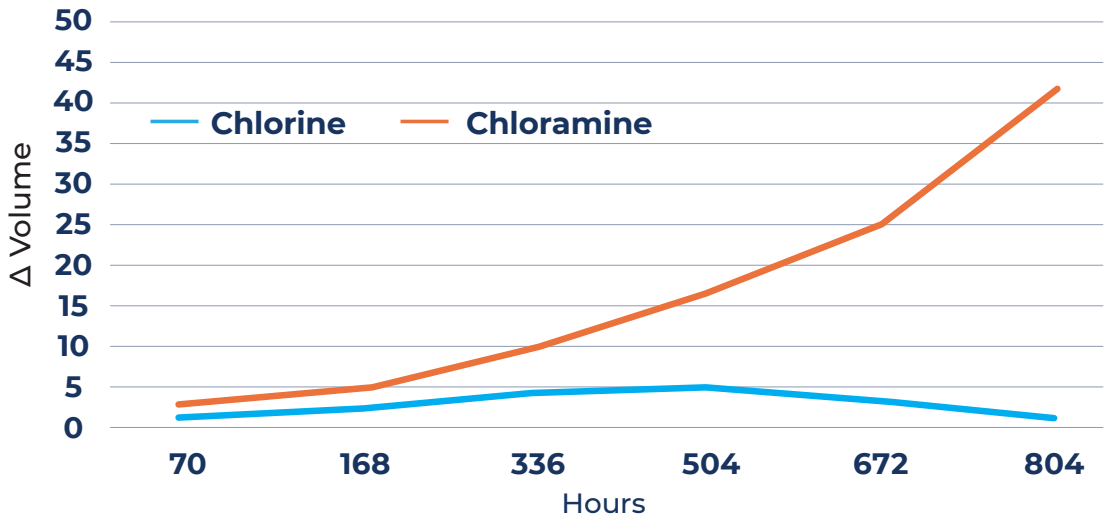
De-Ionized Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Volume	%	0.4

Compression Set Resistance, per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	7
22h @ 125°C	%	7.1
70h @ 100°C	%	8.3
70h @ 125°C	%	10.2

559PE - CHLORINE + CHLORAMINE RESISTANCE



Contact us today to learn more

Our Global Manufacturing + Supply Chains put you closer to your customers

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