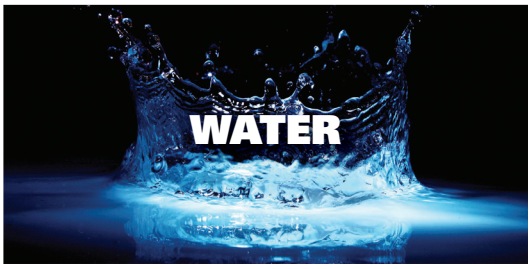
Qmonix® EPDM Elastomer Compound 559PE

Minnesota Rubber & Plastics
Quadion LLC



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 applications

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.

Flow Controllers

Tank Bladders

RO Membranes

Filtration

Valves

Flow Meters

Brine Seals &
Food Contact Seals

Quad-Ring® Seals

Food Contact Seals and
Ground Rubber Balls

Certifications

NSF/ANSI Standard 61

FDA 21 CFR 177.2600

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile	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

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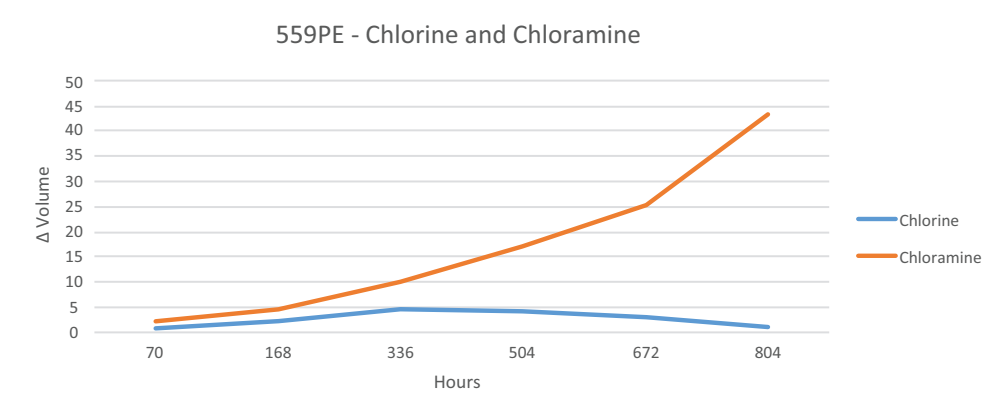
Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	2	
Δ Tensile	%	-2.2	
Δ Elongation	%	-0.7	

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 125°C			D 573
Δ Hardness	Shore A	2	
Δ Tensile	%	6.3	
Δ Elongation	%	3	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
De-Ionized Water			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-2	
Δ Volume	%	0.4	



Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	7	
22h @ 125°C	%	7.1	
70h @ 100°C	%	8.3	
70h @ 125°C	%	10.2	

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Quadion LLC
Leader in Advanced Technologies

To get a quote or order, please visit our website or contact one of our Customer Service Representatives
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