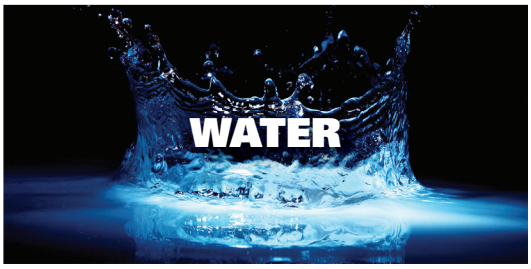
Qmonix® EPDM Elastomer Compound 558EC

Minnesota Rubber & Plastics
Quadion LLC



General Features

- Very good compression set resistance
- Very good heat resistance
- Excellent resistance to water, steam, and aqueous acid/base environments
- Excellent resistance to chlorine and chloramine
- Good low temperature performance
- Water, Food, and Beverage Certifications

Application

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

Compound 558EC exhibits excellent resistance to various aqueous food products as well as potable water containing chlorine or chloramine disinfection.

558EC has multiple global 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 51
NSF/ANSI Standard 61

FDA 21 CFR 177.2600

EC1935/2004

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile	MPa	10 min	12.5	D 412
Elongation at break	%		158	D 412
100% Modulus	MPa		6.6	D 412
Tear Strength, Die C	kN/m			D 624
Specific Gravity			1.11	D 297

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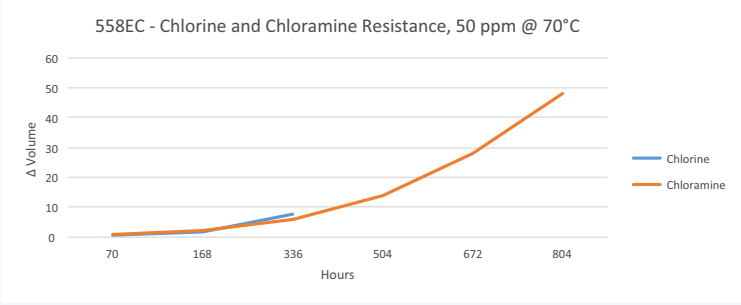
Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	0	
Δ Tensile	%	-4.6	
Δ Elongation	%	0	

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 125°C			D 573
Δ Hardness	Shore A	2	
Δ Tensile	%	3.3	
Δ Elongation	%	-3.2	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
De-Ionized Water			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	0	
Δ Tensile	%	5.8	
Δ Elongation	%	8.9	
Δ Volume	%	0.3	



Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	6.3	
22h @ 125°C	%	10.8	
70h @ 100°C	%	12.4	
70h @ 125°C	%	14.2	

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Leader in Advanced Technologies

To get a quote or order, please visit our website or contact one of our Customer Service Representatives
USA: 1(800)927-1422 Asia: +86-512 6273 2700 Europe: +33(0)2 32 22 24 26

www.mnrubber.com email: webmaster@mnrubber.com phone: 952-927-1400