

General Features

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

Application

Developed for use in potable water, food, and beverage applications. 559GT exhibits excellent resistance to various aqueous food products and has certifications for health, hygiene, and safety in food and water applications.



Flow Controllers



Tank Bladders

RO Membranes



Filtration



Valves



Flow Meters



Rubber to Metal Interface



Quad-Ring® Seals



Food Contact Seals and Ground Rubber Balls

Water, Food, and Beverage Certifications



NSF/ANSI Standard 61



FDA 21 CFR 177.2600

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	90 ± 5	87	D 2240
Tensile	MPa	10 min	13.6	D 412
Elongation at break	%		108	D 412
100% Modulus	MPa		12.7	D 412
Tear Strength, Die C	kN/m		15.2	D 624
Specific Gravity			1.21	D 297

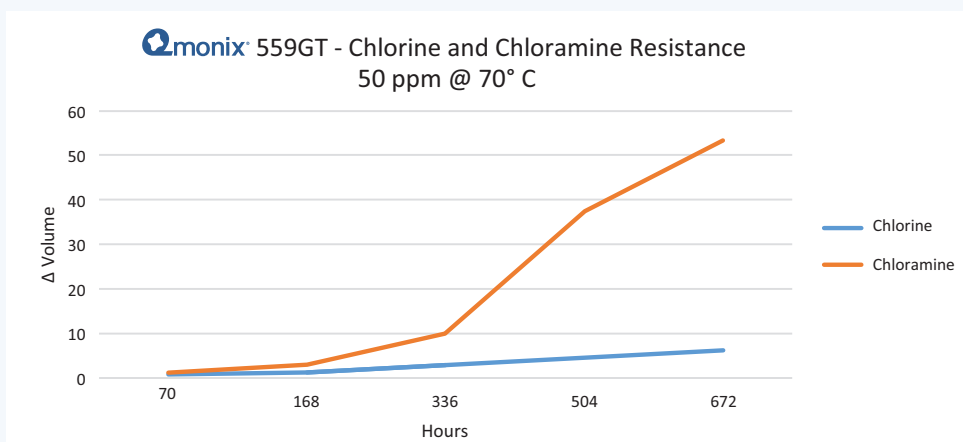
Qmonix® EPDM Elastomer Compound 559GT

Air Age

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C				Change after 70h @ 125°C			
			D 573				D 573
Δ Hardness	Shore A	1		Δ Hardness	Shore A	3	
Δ Tensile	%	7.5		Δ Tensile	%	-0.5	
Δ Elongation	%	1.9		Δ Elongation	%	-4.6	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
De-Ionized Water			
Change after 70h @ 100°C			
			D 471
Δ Hardness	Shore A	-1	
Δ Volume	%	0.5	



Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
D 395, Method B			
22h @ 100°C	%	6.7	
22h @ 125°C	%	8.9	
70h @ 100°C	%	8.8	
70h @ 125°C	%	12.9	