



General Features

- Excellent compression set resistance
- Superior 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.

559AW exhibits excellent resistance to various aqueous food products and 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



FDA 21 CFR 177.2600

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	60 ± 5	73	D 2240
Tensile	MPa	10 min	14	D 412
Elongation at break	%		222	D 412
100% Modulus	MPa		4.4	D 412
Tear Strength, Die C	kN/m		17.5	D 624
Specific Gravity			1.16	D 297

Qmonix® EPDM Elastomer Compound 559AW

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	1	
Δ Tensile	%	3.1	
Δ Elongation	%	4.5	

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 125°C			D 573
Δ Hardness	Shore A	2	
Δ Tensile	%	6.7	
Δ Elongation	%	7.7	

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	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	6.6	
22h @ 125°C	%	6.8	
70h @ 100°C	%	9.8	
70h @ 125°C	%	9.2	