

EPDM Elastomer Compound 558EC

General Features

- Superior compression set resistance
- Excellent heat resistance
- Very good 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.

558EC exhibits excellent resistance to various aqueous food products and has multiple global 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	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

Certifications



NSF/ANSI Standard 51
NSF/ANSI Standard 61



FDA 21 CFR 177.2600



EC1935/2004

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Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-4.6
Δ Elongation	%	0

Air Age, 70h @ 125°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	3.3
Δ Elongation	%	-3.2

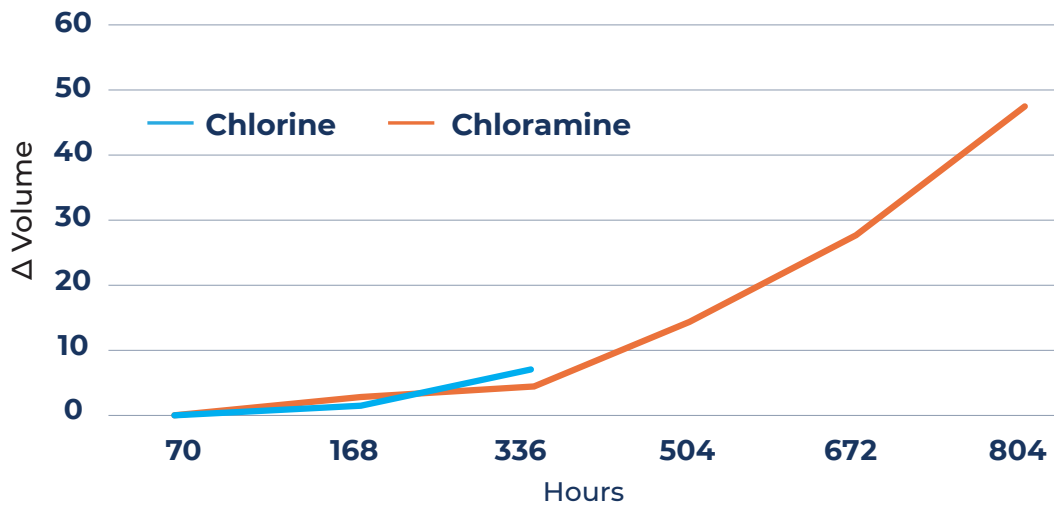
De-Ionized Water, 70h
@ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	5.8
Δ Elongation	%	8.9
Δ Volume	%	0.3

Compression Set Resistance,
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	6.3
22h @ 125°C	%	10.8
70h @ 100°C	%	12.4
70h @ 125°C	%	14.2

558EC - CHLORINE + CHLORAMINE RESISTANCE 50 PPM @ 70° C



Contact us today **to learn more**

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