Minnesota Rubber & Plastics
Quadion LLC

EPDM Elastomer 558CH Compound

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
- Global water, food, and beverage certifications

Application

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

558CH exhibits excellent resistance to various aqueous food products and has multiple global certifications for health, hygiene, and safety in food and water applications.

Proprietary compound formula developed by Minnesota Rubber & Plastics

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile Strength	MPa	10 min	13.8	D 412
Elongation at break	%	100 min	132	D 412
Modulus @ 100% Elongation	MPa	N/A	9.3	D 412
Tear Strength, Die C	kN/m	N/A	21.7	D 624
Specific Gravity	N/A	N/A	1.10	D 297

Air Age, 70h

Property	Measured Change after 70h		ASTM Test Method
	100°C	125°C	
Hardness/Shore A	0.0	2.0	D 2240
Tensile Strength	-4.8%	0.8%	D 412
Elongation at break	-6.1%	3.1%	D 412

558CH Certifications

NSF/ANSI Standard 51
NSF/ANSI Standard 61

EC1935/2004

FDA 21 CFR 177.2600

Attestation de Conformite Sanitaire – France

Water Regulations Advisory Scheme – UK

German Drinking Water Ordinance (UBA)

Additional information is available upon request.

EPDM Elastomer 558CH Compound

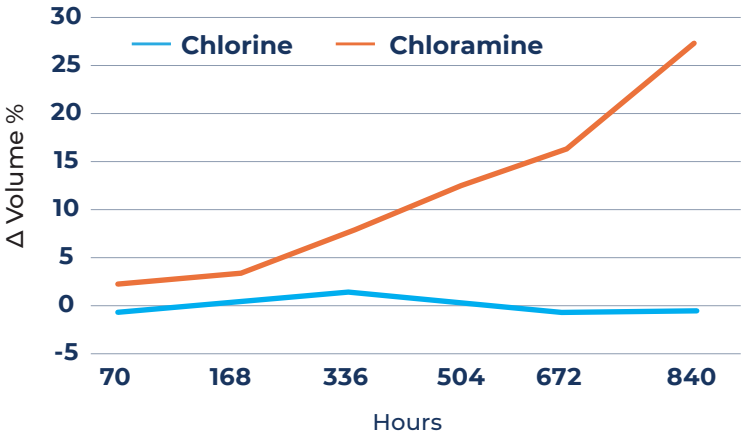
Compression Set Resistance, per ASTM D 395, Method B

Dwell Time	Measured Change after Dwell Time			ASTM Test Method
	100°C	125°C	150°C	
22 Hours	4.3%	6.3%	10.0%	D 395 Method B
70 Hours	6.4%	9.8%	—	

Fluid Immersion, 70h

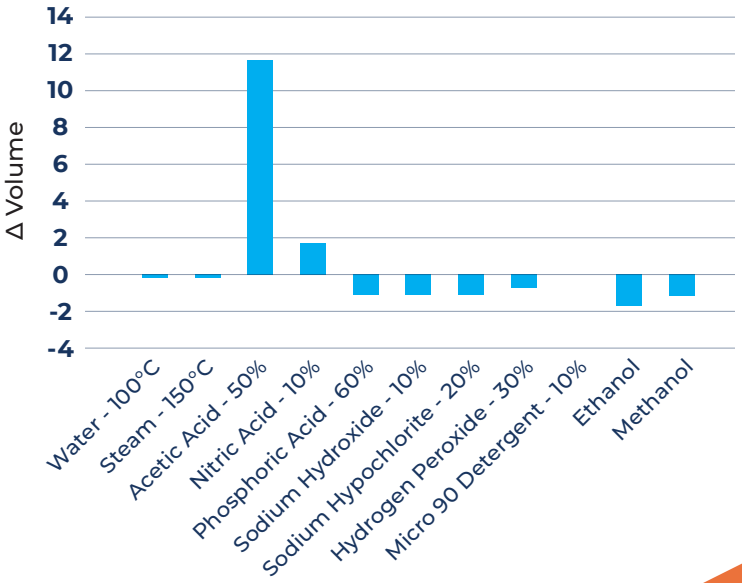
Property	Measured Change		ASTM Test Method
	100°C	150°C	
Hardness/Shore A	0.0	1.0	D 2240
Tensile Strength	-0.2%	—	D 412
Elongation at break	0.8%	—	D 412
Volume Change	-0.3%	1.7%	D 471

558CH – CHLORINE + CHLORAMINE RESISTANCE, 50 PPM AT 70°C



Per Minnesota Rubber & Plastics iso-concentration, continuous flow method

558CH – CIP SOLUTIONS 70 HOURS AT 70°C



Contact us today to learn more

Our Global Manufacturing + Supply Chains put you closer to your customers

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