

EPDM Elastomer 558CH Compound

Proprietary compound formula developed by Minnesota Rubber & Plastics

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.

Original Material Properties

Property	Unit	Target	Measured	ASTM Test Method
Hardness	Shore A	70 +/-5	73	D2240
Tensile Strength	MPa	10 Min.	13.8	D412
Elongation at Break	%	100 Min.	132	D412
Modulus @ 100% Elongation	MPa	N/A	9.3	D412
Tear Strength	kN/m	N/A	21.7	D624, Die C
Specific Cravity	N/A	N/A	1.10	D297

Air Age, Per ASTM D573

Property	Measured Change after 70 hours		ASTM Test Method
	100°C	125°C	
Hardness, Shore A	0.0 points	2.0 points	D2240
Tensile Strength	-4.8%	0.8%	D412
Elongation at Break	-6.1%	3.1%	D412

Compression Set Resistance

Dwell Time	Measured Change after dwell time			ASTM Test Method
	100°C	125°C	150°C	
22 Hours	4.3%	6.3%	10.0%	D395, Method B
70 Hours	6.4%	9.8%	--	

558CH Certifications

Additional information is available upon request.



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



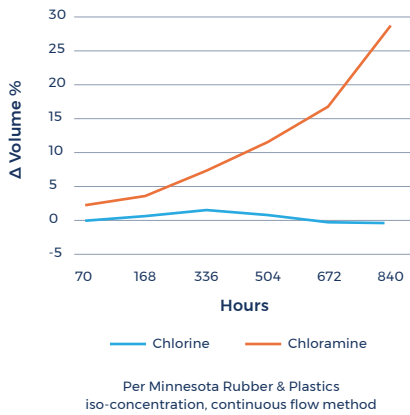
German Drinking Water
Ordinance (UBA)

EPDM Elastomer 558CH Compound

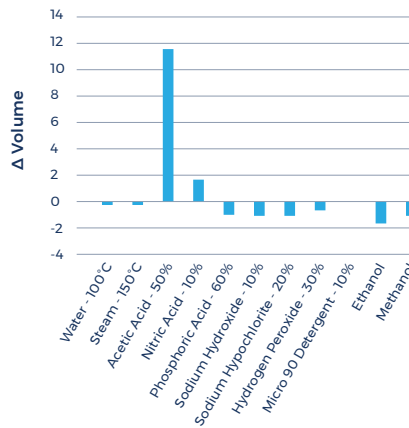
Fluid Immersion: De-Ionized Water, Per ASTM D471

Property	Measured Change after 70 hours		ASTM Test Method
	100°C	150°C	
Hardness, Shore A	0.0 points	1.0 points	D2240
Tensile Strength	-0.2%	--	D412
Elongation at Break	0.8%	--	D412
Volume Change	-0.3%	1.7%	D471

558CH - Chlorine & Chloramine Resistance, 50 ppm at 70°C



558CH - CIP Solutions 70 hours at 70°C



Applications



Beverage Dispensers



Drinking Water Filtration



Faucet & Fixture



Press Fittings



Water Heaters



Water Treatment

Learn more about how we can help advance your water, food and beverage program

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For more than 70 years, Minnesota Rubber & Plastics has helped world-class organizations solve the most difficult sealing and component challenges.

We develop highly engineered, critical-to-function custom molded solutions for the Medical, Transportation, Water, and Food & Beverage markets.

We can support our customers wherever they do business – and our global footprint spans North America, Europe and Asia.



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