



Qmonix® — Minnesota Rubber and Plastics portfolio of high performance EPDM materials. Within the Qmonix® family are materials used for Water, Food and Beverage applications which carry certifications from many of the largest global certifying agencies. In addition, Qmonix® materials deliver durability and longevity, and remain highly stable in critical applications under extreme conditions in Medical and Pharmaceutical, Transportation, and Power industry applications.

Features & Benefits QMONIX®

- Durable and long-lasting
- Regulatory compliance including major water certifications and EU EC1935/2004 & FDA 21 CFR
- High dielectric strength
- Maintains original form and sealing force
- Ozone and high dosage UV resistance
- High temperature applications up to 150°C/302°F
- Resistant to severe chemical exposure including brake fluid, alkalis and oxygenated solvents

Material Data

Property / Formulation	559PE	558EC	912T	560CF	559GT
Hardness, Shore A	70	70	75	60	90
Tensile, psi	1500	1800	1600	1600	1800
Elongation, %	135	160	400	350	100
Modulus @100%, psi	900	950	500	450	1850
Specific Gravity	1.12	1.11	1.08	1.04	1.20
Compression Set, 22h @ 100°C, %	8	6	12	8	7

Applications

MEDICAL & PHARMA

- Defibrillators
- Pacemakers
- Implantable pulse generators

WATER

- Beverage dispensing
- Food contact seals
- Brine seals
- Valves

TRANSPORTATION

- O-rings & Quad-rings
- AC seals
- Brake fluid seals

POWER

- Wiper seals
- Coolant seals
- Rod seals

Comparative Data

After Chloramine Immersion

30 days at 50ppm at 70°C



Qmonix® 559PE
(70 Shore A)
Volume Change +7%



Competitor's Compound
(70 Shore A)
Volume Change +148%

Resistance Comparison of Various Polymers								
Resistance to / Polymer	Qmonix®	Polyisoprene	SBR	Butyl	NBR	Silicone	Neoprene	FKM
Water Absorption	O	G	G	VG	VG	VG	VG	E
Oxidation	O	P	F	VG	VG	O	VG	O
Ozone	O	P	F	VG	VG	O	E	O
UV Aging	O	G	G	VG	VG	O	VG	O
Heat Aging	E	P	G	VG	VG	O	VG	O
Cold	E	E	E	E	VG	O	VG	G
O - Outstanding E - Excellent VG - Very Good G - Good F - Fair P - Poor								



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