Qmonix®

Minnesota Rubber & Plastics
Quadion LLC

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

ATTESTATION DE CONFORMITE SANITAIRE ACS · W270 · FDA · EC1935/2004 · WRAS WATER REGULATIONS ADVISORY SCHEME · KTW · NSF

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Leader in Advanced Technologies

[To get a quote or order, please visit our website or contact one of our Customer Service Representatives
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