





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.

Comparative Data

Resistance to / Polymer

Water Absorption

Oxidation

UV Aging

Heat Aging

Ozone

Cold

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

After Chloramine Immersion 30 days at 50ppm at 70°C

Resistance Comparison of Various Polymers

SBR

G

F

F

G

G

Е

VG - Very Good

Butyl

VG

VG

VG

VG

VG

Е

G - Good

WRAS

NBR

VG

VG

VG

VG

VG

VG

Polyisoprene

G

Ρ

Ρ

G

Ρ

Е

Qmonix[•] 559PE

(70 Shore A)

Volume Change +7%

0

0

0

0

Е

F

E - Excellent

FDA

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

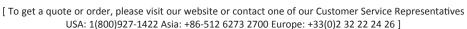
POWER

- Wiper seals
- Coolant seals
- Rod seals



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O - Outstanding



Competitor's Compound

(70 Shore A)

Volume Change +148%

Neoprene

VG

VG

Е

VG

VG

VG

P - Poor

KTV

FKM

Е

0

0

0

0

G

NSF

Silicone

VG

0

0

0

0

0

F - Fair

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