

# Qmonix® EPDM Elastomer Compound 912T

## General Features

- Excellent compression set resistance
- Outstanding heat resistance
- Excellent resistance to water and steam environments
- Exhibits good biocompatibility
- High dielectric strength for bio-electrical applications

## Application

Developed for use in bio-compatible applications where tear resistance and mechanical durability are required.

912T exhibits high dielectric strength and has been tested in accordance with ISO-10993-5 and USP Class VI requirements.

### ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	71 to 76	75	D 2240
Tensile Strength	MPa	10 min	10.5	D 412
Elongation at break	%		337	D 412
100% Modulus	MPa		3.2	D 412
Tear Strength, Die B	kN/m	35 min	37.1	D 624
Tear Strength, Die C	kN/m		20.0	D 624
Specific Gravity			1.08	D 297

### Air Age, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	3.2
Δ Elongation	%	-3

### Air Age, 70h @ 125°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	16.7
Δ Elongation	%	5.3

### Certifications

USP CLASS VI  
ISO 10993-5

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De-Ionized Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-6
Δ Volume	%	-0.7

Dielectric Strength, 60hz per ASTM D 149

Property	Typical
Breakdown Voltage, kVAC	45
Dielectric Strength, V/mil	557
Dielectric Strength, kV/mm	21.9

Dielectric Constant, 50hz per ASTM D 150

Property	Typical
Capacitance (parallel), pF	52.2
Specific Capacitance (calculated), pF	20.03
Dielectric Constant	2.606
Dissipation Factor	0.00224

Dielectric Constant, 500kHz per ASTM D 150

Property	Typical
Capacitance (parallel), pF	49.81
Specific Capacitance (calculated), pF	19.72
Dielectric Constant	2.527
Dissipation Factor	0.01000

Biocompatibility

Property	Typical
SP Class VI	
Intracutaneous Injection Test	Pass
Acute Systemic Injection Test	Pass
Intramuscular Implant Test	Pass
ISO 10993-5:2009	
ISO MEM Elution Method	Non-cyto-toxic

Compression Set Resistance, per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	5.8
70h @ 100°C	%	10.8
22h @ 125°C	%	8.0

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