



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.



Cardiac Pacemaker



Implantable Pulse
Generators & Pacemakers



Defibrillator

Certifications



USP Class VI

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	71 to 76	75	D 2240
Tensile	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

Qmonix® EPDM Elastomer Compound 912T

Air Age

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C				Change after 70h @ 125°C			
D 573				D 573			
Δ Hardness	Shore A	0		Δ Hardness	Shore A	-1	
Δ Tensile	%	3.2		Δ Tensile	%	16.7	
Δ Elongation	%	-3		Δ Elongation	%	5.3	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
De-Ionized Water			
Change after 70h @ 100°C			
D 471			
Δ Hardness	Shore A	-6	
Δ Volume	%	-0.7	

Electrical Performance

Property	Obtained	ASTM Test Method	Property	Obtained	ASTM Test Method
Electrical Performance - Dielectric Strength, 60 Hz			Electrical Performance - Dielectric Constant, 50 Hz		
Breakdown Voltage, kVAC	45	D 149	Capacitance (parallel), pF	52.2	D 150
Dielectric Strength, V/mil	557		Specific Capacitance (calculated), pF	20.03	
Dielectric Strength, kV/mm	21.9		Dielectric Constant	2.606	
			Dissipation Factor	0.00224	

Property	Obtained	ASTM Test Method
Electrical Performance - Dielectric Constant, 500 kHz		
Capacitance (parallel), pF	49.81	D 150
Specific Capacitance (calculated), pF	19.72	
Dielectric Constant	2.527	
Dissipation Factor	0.01000	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
D 395, Method B			
22h @ 100°C	%	5.8	
70h @ 100°C	%	10.8	
22h @ 125°C	%	8.0	

Biocompatibility

Property	Obtained
USP Class VI	
Intracutaneous Injection Test	Pass
Acute Systemic Injection Test	Pass
Intramuscular Implant Test	Pass
ISO 10993-5:2009	
ISO MEM Elution Method	Non-cytotoxic



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