FKM Elastomer Compound 514TS

Minnesota Rubber & Plastics
Quadion LLC

General Features

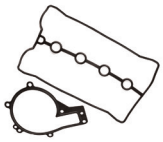
- Excellent compression set resistance
- Good heat resistance
- Excellent general chemical resistance, including oxygenated (alcohol containing) fuels and automotive coolants and transmission fluids
- Very good low temperature flexibility compared to other FKM elastomers

Application

A fuel resistant FKM elastomer with excellent resistance to extended life engine coolants, lubricating oils, and transmission fluids.

514TS provides excellent general chemical resistance, including resistance to oxygenated (alcohol containing) fuels while providing excellent compression set resistance and very good low temperature flexibility.


Engine Seals


Intake Manifold Seals


Bonded Seals


Valve Body Seals


Transmission Seals


Hydraulic and Pneumatic Seals


Quad-Ring® Seals


Quad® Brand O-Rings & Ground Rubber Balls

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile	MPa		13.9	D 412
Elongation at break	%		313	D 412
100% Modulus	MPa		3	D 412
Tear Strength, Die C	kN/m		13.8	D 624
Specific Gravity			1.88	D 297

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 250°C			D 573
Δ Hardness	Shore A	-1	
Δ Tensile	%	-38.2	
Δ Elongation	%	57.5	

FKM Elastomer Compound 514TS

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
Reference Fuel C			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-4	
Δ Tensile	%	-22.4	
Δ Elongation	%	-12.5	
Δ Volume	%	5.7	

Property	Unit	Obtained	ASTM Test Method
Service Liquid 101			
Change after 70h @ 200°C			D 471
Δ Hardness	Shore A	-6	
Δ Tensile	%	-12.4	
Δ Elongation	%	-4.2	
Δ Volume	%	8.1	

Property	Unit	Obtained	ASTM Test Method
Dexron VI ATF			
Change after 168h @ 150°C			D 471
Δ Hardness	Shore A	-3	
Δ Tensile	%	-11.3	
Δ Elongation	%	-1.3	
Δ Volume	%	1.4	

Property	Unit	Obtained	ASTM Test Method
DexCool Coolant			
Change after 168h @ 150°C			D 471
Δ Hardness	Shore A	4	
Δ Tensile	%	-19.7	
Δ Elongation	%	13.7	
Δ Volume	%	3.9	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 23°C	%	9.2	
22h @ 175°C	%	13.7	
22h @ 200°C	%	17.7	

Low Temperature

Property	Obtained	ASTM Test Method
Glass Transition Temperature, °C	-28	D 7426

Minnesota Rubber & Plastics
Quadion LLC
Leader in Advanced Technologies

To get a quote or order, please visit our website or contact one of our Customer Service Representatives
USA: 1(800)927-1422 Asia: +86-512 6273 2700 Europe: +33(0)2 32 22 24 26

www.mnrubber.com email: webmaster@mnrubber.com phone: 952-927-1400

Rev 052018