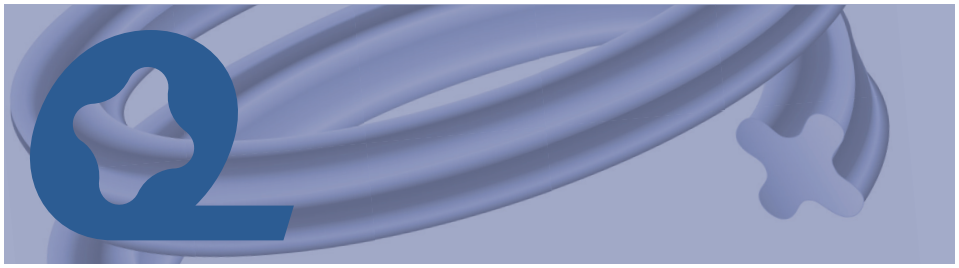
NBR Elastomer Compound 525EX

Minnesota Rubber & Plastics
Quadion LLC



General Features

- Self-lubricating surface to provide low COF for ease of assembly or product performance
- Very good compression set resistance and heat resistance
- Excellent resistance to petroleum oils, greases, and fuels
- Good low temperature performance

Application

A general purpose self-lubricating NBR with good aging resistance for suitability in a variety of sealing applications.

525EX exhibits excellent resistance to wide range of petroleum products while providing excellent low temperature flexibility and sealing performance.

Self-lubrication offers ease of installation of molded parts.

Quad-Ring® Brand Seals

Quad® Brand O-Ring Seals

Quad® Ground Rubber Balls

Equi-Flex™ Rod Wiper/ Scraper

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	67	D 2240
Tensile	MPa	10 min	17.7	D 412
Elongation at break	%		504	D 412
100% Modulus	MPa		3	D 412
Tear Strength, Die C	kN/m		34.1	D 624
Specific Gravity			1.18	D 297

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	5	
Δ Tensile	%	3.2	
Δ Elongation	%	-11.9	

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Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
IRM 901 oil			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	4	
Δ Tensile	%	7.2	
Δ Elongation	%	-12.9	
Δ Volume	%	-5.7	

Property	Unit	Obtained	ASTM Test Method
IRM 903 oil			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-5	
Δ Tensile	%	-0.4	
Δ Elongation	%	-13.7	
Δ Volume	%	9.1	

Property	Unit	Obtained	ASTM Test Method
De-Ionized Water			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-1	
Δ Tensile	%	-8.9	
Δ Elongation	%	-20	
Δ Volume	%	2.6	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	10.6	
70h @ 100°C	%	14	

Low Temperature

Property	Obtained	ASTM Test Method
Glass Transition Temperature, °C	-31	D 7426