

NBR Elastomer Compound 525EX

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.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	67	D 2240
Tensile Strength	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, 70h @ 100°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	5
Δ Tensile Strength	%	3.2
Δ Elongation	%	-11.9

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IRM 901 Oil, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	4
Δ Tensile Strength	%	7.2
Δ Elongation	%	-12.9
Δ Volume	%	-5.7

IRM 903 Oil, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	-0.4
Δ Elongation	%	-13.7
Δ Volume	%	9.1

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

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	-8.9
Δ Elongation	%	-20
Δ Volume	%	2.6

Compression Set Resistance, per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	10.6
70h @ 100°C	%	14

Low temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-31

Contact us today **to learn more**

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