

# NBR Elastomer Compound 536EG

### **General Features**

- Very good compression set resistance
- Good heat resistance
- Good resistance to water, steam, and aqueous acid/base environments
- Very good general chemicals including bio-based and petroleum oils
- Suitable for use in contact with dairy based foods and beverages as well as aqueous based foods

## Application

Developed for use in potable water, food and beverage applications. Also provides excellent chemical resistance, including Clean-in-Place Solutions, oils and fuels (including fuels oxygenated with alcohols and ethers).

536EG exhibits excellent resistance to various aqueous and nonaqueous food products and has multiple global certifications for health, hygiene, and safety in food and water applications.

#### ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	68	D 2240
Tensile Strength	MPa	7 min	7.8	D 412
Elongation at break	%	200 min	266	D 412
100% Modulus	MPa		2.7	D 412
Tear Strength, Die C	kN/m		19.8	D 624
Specific Gravity			1.30	D 297

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

Property	Unit	Typical
$\Delta$ Hardness	Shore A	4
$\Delta$ Tensile Strength	%	-6.8
$\Delta$ Elongation	%	-16.5

#### Certifications







NSF/ANSI Standard 51 NSF/ANSI Standard 61 Sanitary 3-A

EC1935/2004

FDA



FDA 21 CFR 177.2600

USP Class VI

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

Property	Unit	Typical
$\Delta$ Hardness	Shore A	1
$\Delta$ Tensile Strength	%	24.0
$\Delta$ Elongation	%	4.5
Δ Volume	%	-1.7

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

Property	Unit	Typical
∆ Hardness	Shore A	-5
$\Delta$ Tensile Strength	%	-34.5
$\Delta$ Elongation	%	-28.9
Δ Volume	%	12.0

#### Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
$\Delta$ Hardness	Shore A	-3
∆ Tensile Strength	%	0.9
∆ Elongation	%	-4.5
ΔVolume	%	1.3

#### Compression Set Resistance, per ASTM D 395, Method B

Property	Unit	Typical
22h @ 100°C	%	12.9

#### Low temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-29

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