

# HNBR\* Elastomer Compound 574DX

\*Highly Saturated Nitrile

## General Features

- Excellent compression set resistance
- Excellent heat resistance
- Very good resistance to petroleum oils, greases + fuels
- Excellent low-temperature performance

## Application

A low-temperature flexible HNBR with excellent aging resistance for suitability in demanding sealing applications.

574DX exhibits very good resistance to a wide range of petroleum products and lubricants while providing excellent low-temperature flexibility.

### ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	74	D 2240
Tensile Strength	MPa	10 min	17	D 412
Elongation at break	%		155	D 412
100% Modulus	MPa		10	D 412
Tear Strength, Die C	kN/m		12.6	D 624
Specific Gravity			1.28	D 297

### Air Age, 70h @ 150°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	5.6
Δ Elongation	%	4.5

# HNBR Elastomer Compound 574DX

IRM 901 Oil, 70h @ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Tensile Strength	%	9.8
Δ Elongation	%	5.2
Δ Volume	%	0.9

IRM 903 Oil, 70h @ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-13
Δ Tensile Strength	%	-12.1
Δ Elongation	%	0
Δ Volume	%	28.3

Diesel Exhaust Fluid (DEF), 168h  
@ 125°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	-10.3
Δ Elongation	%	17.2
Δ Volume	%	9.7

Mobil 1 Dexos 0W-20 Motor Oil, 70h  
@ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-4
Δ Tensile Strength	%	3
Δ Elongation	%	-7.7
Δ Volume	%	4

Mobil 1 Dexos 0W-20 Motor Oil containing 0.88%  
by volume of 15.8 Normal Nitric Acid, 70h  
@ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	2.3
Δ Elongation	%	-6.5
Δ Volume	%	4.4

Compression Set Resistance,  
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 150°C	%	6.5
70h @ 150°C	%	11.9

Low Temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-43

Contact us today **to learn more**

Our Global Manufacturing + Supply Chains  
put you closer to your customers

800.927.1422 • mnrubber.com  
marketing@mnrubber.com

