

The O-Ring Store LLC



We make getting o-rings easy!

BUNA-N 50 DUROMETER CORD STOCK DATA SHEET FOR COMPOUND N50 CORD

Compound Features:

- Soft 50 Durometer Material
- Excellent resistance to petroleum products.
- Excellent water resistance.
- Resistance to ethylene glycol fluids.
- Works well with silicone grease or oil lubricants.
- Good low temperature flexibility.
- Good abrasion and wear resistance.
- Good compression set.
- Good Permeation resilience.

Compound Limitations:

- Poor resistance to UV/sunlight, ozone, and weathering.
- Halogenated hydrocarbons.
- Poor resistance to ketones (MEK) and other strong solvents.
- Poor resistance to strong acids.
- Poor resistance to automotive and aircraft brake fluids.

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

Applicable ASTM Callouts:

M2BG 510 B14 EA14 EO14 EO34 EF21 F17

Recommended Shelf Life:

15 Years

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Durometer	-	D2240	Shore A	50 ± 5	50
Tensile Strength		D412	PSI	1450 Min	1483
Elongation at Break		-	%	300 Min	460

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Durometer Change	A14	ASTM D573 70 Hours @ 100°C	Shore A	±15	+9
Tensile Strength Change			%	± 30 Max	+17.4
Elongation Resistance Change			%	-50 Max	-17.4

FLUID RESISTANCE - WATER					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Durometer Change	EA14	70 Hours @ 100°C	Shore A	± 10	-1
Change in Volume			%	± 15	+12.3

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Original Deflection	B14	ASTM D395-08 22 Hours @ 100°C	%	25 Max	+15

OIL RESISTANCE - ASTM #1 OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Durometer Change	EO14	70 Hours @ 100°C	Shore A	-5 to +10	+10
Tensile Strength Change			%	-25 Max	-19.5
Elongation Resistance Change			%	-45 Max	-2.2
Change in Volume			%	25 Max	+15

LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Point of Brittleness	F17	-	°C	-43°C	5 of 5

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

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OIL RESISTANCE – ASTM #3 OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	N50 CORD Compound Property
Durometer Change	EO34	70 Hours @ 100°C	Shore A	-10 to +5	+2
Tensile Strength Change			%	-45 Max	+3.9
Elongation Resistance Change			%	-45 Max	-13
Change in Volume			%	0 to +35	+2.1

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