

The O-Ring Store LLC



We make getting o-rings easy!

BUNA-N 70 DUROMETER CORD STOCK DATA SHEET FOR COMPOUND N70 CORD

Compound Features:

- 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 710 B14 EA14 EO14 EO34 EF21 F17

M5BG 710 A14 B14 EO14 EO34

Recommended Shelf Life:

15 Years (Certificate of conformance available upon request.)

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer	-	D2240	Shore A	70± 5	72
Tensile Strength		D412	PSI	1450	2081
Elongation Resistance		D412	%	250	306

HEAT RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	A14	ASTM D573 70 Hours @ 100°C	Shore A	±15	+7
Tensile Strength Change			%	-20 Max	+14
Elongation Resistance Change			%	-40 Max	-30

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Original Deflection	B14	ASTM D395 22 Hours @ 100°C	%	25 Max	-24

OIL RESISTANCE – ASTM NO. 1 OIL					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	EO14	ASTM D471 70 Hours @ 100°C	Shore A	-5 to +10	+10
Tensile Strength Change			%	-25 Max	+11
Elongation Resistance Change			%	-45 Max	-9
Change in Volume			%	-10 to +5	-5

OIL RESISTANCE – ASTM NO. 3 OIL TRM 903 (GRADE 2)					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	EO34	ASTM D471 70 Hours @ 100°C	Shore A	-10 to +5	-1
Tensile Strength Change			%	-45 Max	+1
Elongation Resistance Change			%	-45 Max	-32
Change in Volume			%	0 to +25	+5.7

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 NO. 3 OIL TRM 903 (GRADE 5)

Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	EO34	ASTM D471 70 Hours @ 100°C	Shore A	-10 to +5	-1
Tensile Strength Change			%	-45 Max	+1
Elongation Resistance Change			%	-45 Max	-32
Change in Volume			%	0 to +25	+5.7

WATER RESISTANCE

Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	EA14	ASTM D471 70 Hours @ 100°C	Shore A	± 10	+5
Change in Volume			%	± 15	+2.9

FUEL RESISTANCE – REFERENCE FUEL B

Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Durometer Change	EF21	ASTM D471 70 Hours @ 23°C	Shore A	0 to -30	-18
Tensile Strength Change			%	-60 Max	-28.6
Elongation Resistance Change			%	-60 Max	-29
Change in Volume			%	0 to +40	+20.6

LOW TEMPERATURE RESISTANCE

Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 CORD Compound Property
Original Deflection	F17	D471 3 Min @ -40°C	Pass/Fail	Non-Brittle	Pass

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