

The O-Ring Store LLC



We make getting o-rings easy!

SQUARE BUNA-N 70 DUROMETER DATA SHEET FOR COMPOUND SN70

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)

ASTM Callout:

M2BG 710 B14 B34 EA14 EO14 EO34 EF11 EF21 F17

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer	-	D2240	Shore A	70± 5	72
Tensile Strength		D412	PSI (MPa)	1450 Min.	1638
Elongation Resistance		D412	%	250 Min.	317

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	A14	D573 70 Hours @ 100°C	Shore A	+15 Max	+1
Tensile Strength Change			%	-20 Max	+1.9
Elongation Resistance Change			%	-40 Max	-9.3

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Original Deflection	B14	D395 Method B 22 Hours @ 100°C	%	25 Max	12.4

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Original Deflection	B34	D395 Method B 22 Hours @ 100°C	%	25 Max	15.7

WATER RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	EA14	D471 70 Hours @ 100°C	Shore A	±10	-4
Volume Change			%	±15	+4

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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ASTM #1 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	E014	D471 70 Hours @ 100°C	Shore A	-5 to +15	+9
Tensile Strength Change			%	-25 Max	+10.6
Elongation Resistance Change			%	-45 Max	-24.6
Volume Change			%	-10 to +5	-8.1

ASTM #3 OIL RESISTANCE – TRM 903					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	E034	D471 70 Hours @ 100°C	Shore A	-10 to +5	-6
Tensile Strength Change			%	-40 Max	+2.6
Elongation Resistance Change			%	-45 Max	-6
Volume Change			%	0 to +25	+8.5

FUEL A RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	EF11	D471 70 Hours @ 23°C	Shore A	±10	-6
Tensile Strength Change			%	-25	-8.2
Elongation Resistance Change			%	-25	-13.3
Volume Change			%	-5 to +10	+2.5

FUEL B RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Durometer Change	EF21	D471 70 Hours @ 23°C	Shore A	0 to -30	-15
Tensile Strength Change			%	-60 Max	-32
Elongation Resistance Change			%	-60 Max	-27.7
Volume Change			%	-0 to +40	+23.3

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ASTM #3 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	B70 Compound Property
Durometer Change	EO34	70 Hours @ 100°C	Shore A	-10 to +5	-5
Tensile Strength Change			%	-45	-10
Elongation Resistance Change			%	-45	-11.4
Volume Change			%	0 to +25	+7.8

LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	SN70 Compound Property
Test Results	F17	D2137	Pass/Fail	Non-Brittle	Pass

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