

The O-Ring Store LLC



We make getting o-rings easy!

WHITE FDA BUNA-N 70 DUROMETER DATA SHEET FOR COMPOUND WN70

Compound Features:

- FDA compliant*.
- White in color.
- 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:

ASTM D2000-12 M6BG710 A14 B14 EO14 EO34 Z1 Z2 Z3

Z1 = Report Modulus at 100%

Z2 = Sulfur Cured

Z3 = *FDA Compliant 21 CFR177.2600

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
Durometer	-	D2240-10	Shore A	70± 5	72
Tensile Strength	-	D412-13	MPa	10 Min	11.6
Elongation Resistance	-	D412-13	%	250	412
Specific Gravity	-	D297-13	-	Report	1.31
Modulus at 100%	Z1	D412-13	MPa	Report	3.8
Cure System	Z2	-	-	-	Sulfur

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
Durometer Change	-	ASTM D573-10 70 Hours @ 100°C	Shore A	±15	+5
Tensile Strength Change			%	-20	-5
Elongation Resistance Change			%	-40	--15

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
Original Deflection	B14	ASTM D395-08 22 Hours @ 100°C	%	50 Max	20

IRM901 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
Durometer Change	EO14	ASTM D471-12A 70 Hours @ 100°C	Shore A	-5 to +15	+5
Tensile Strength Change			%	-25	+5
Elongation Resistance Change			%	-45	-5
Change in Volume			%	-10 to +5	-6

RIM903 OIL RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
Durometer Change	EO34	ASTM D471-12A 70 Hours @ 100°C	Shore A	0 to -20	+6
Tensile Strength Change			%	-5	-5
Elongation Resistance Change			%	-26	-26
Change in Volume			%	0 to +35	+15

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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FDA COMPLIANT 21 CFR177.2600					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	WN70 METRIC Compound Property
FDA	Z3	-	Pass/Fail	CFR177.2600	Pass

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