The O-Ring Store LLC We make getting o-rings easy! **DATA SHEET FOR COMPOUND** B70 : BUNA-N 70 DUROMETER

Buna-N O-Rings are the most widely used o-ring material in the world because of low cost, good mechanical performance with resistance to water, most basic oils, lubricants and some fuels, many pneumatic, hydraulic systems, propane, natural gas and the default choice for basic applications. Buna-N o-rings are not recommended for exposure to sunlight, UV light, ozone and general outdoor weathering or hash chemicals, acids, keytones and many others.

COMPOUND FEATURES

- Relatively high acrylo content.
- Excellent resistance to petroleum products.
- Excellent water resistance.
- Resistance to ethylene glycol fluids. 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 D2000-99 Grade M2BG714 B14 EA14 EF11 EF21 EO14 EO34 Z1=TR10=-31.9C

RECOMMENDED SHELF LIFE:

15 Years

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PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNE PROPERTY
DUROMETER	-	-	SHORE A	70 ± 5	70
TENSILE STRENGTH			PSI (MPA)	2031 (14) MIN.	2476 (17)
ELONGATION RESISTANCE			%	250 MIN.	385
SPECIFIC GRAVITY			-	-	1.24
AT AGE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNI PROPERTY
DUROMETER CHANGE	-	70 HOURS @ 150° C	SHORE A	±15	+1
TENSILE STRENGTH CHANGE			%	±30	+4
ONGATION RESISTANCE CHANGE			%	-50	-16
MPRESSION SET					
PROPERTIES	ASTM DESIGNATION	TEST Method	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNI PROPERTY
ORIGINAL DEFLECTION	B14	70 HOURS @ 100° C	%	25 MAX	16.7
ATER RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST Method	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNI PROPERTY
DUROMETER CHANGE	EA14	70 HOURS @ 100° C	SHORE A	±10	+2
CHANGE IN VOLUME			%	±15	+6.2
EL A RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNI PROPERTY
DUROMETER CHANGE	EF11	70 HOURS @ 23° C	SHORE A	±10	+1
TENSILE STRENGTH CHANGE			%	-25	-6.3
ONGATION RESISTANCE CHANGE			%	-25	-2.3
CHANGE IN VOLUME			%	5 TO +10	+1.5

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UEL B RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUND PROPERTY
DUROMETER CHANGE	EF21	70 HOURS @ 23° C	SHORE A	0 TO -30	-7
TENSILE STRENGTH CHANGE			%	-60	-37.8
CLONGATION RESISTANCE CHANGE			%	-60	-26.2
CHANGE IN VOLUME			%	-0 TO +40	+21.1
ISTM #1 OIL RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUND PROPERTY
DUROMETER CHANGE	EO14	70 HOURS @ 23° C	SHORE A	-5 to +15	+2
TENSILE STRENGTH CHANGE			%	-25	+3.2
LONGATION RESISTANCE CHANGE			%	-45	-12.8
CHANGE IN VOLUME			%	-10 to +5	-3.7
ISTM #3 OIL RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	B70 COMPOUNE PROPERTY
DUROMETER CHANGE	EO34	70 HOURS @ 23° C	SHORE A	-10 TO +5	-5
TENSILE STRENGTH CHANGE			%	-45	-10
LONGATION RESISTANCE CHANGE			%	-45	-11.4
CHANGE IN VOLUME			%	0 TO +25	+7.8
OW TEMPERATURE RETRACTION					
	ASTM	TEST	UNIT OF	ASTM D2000 SPECIFICATION	B70 COMPOUN PROPERTY
PROPERTIES	DESIGNATION	METHOD	MEASURE	SPECIFICATION	FROFERT

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