

# The O-Ring Store LLC

## We make getting o-rings easy!

### DATA SHEET FOR COMPOUND E70-NSF61 : EPDM 70 DUROMETER PEROXIDE CURED NSF61

This EPDM compound is Peroxide Cured and is suitable for use with chloramine-treated drinking water, food and beverage, and pharmaceutical applications. Other applications include hot water or steam, engine coolants, alcohols, ketones, as well as organic and inorganic acids or bases.

#### COMPOUND FEATURES

- Peroxide Cured.
- NSF61 Certified.
- FDA Compliant per FDA 21 CFR 177.2600.
- Lubricated 0.9%
- Excellent resistance to Chloramine.
- Better heat stability vs. Sulfur Cured EPDM compounds.
- Improved chemical and oil resistance vs. Sulfur Cured EPDM compounds.
- Unlikely to bloom, discolor, or color contaminate.

#### COMPOUND LIMITATIONS

- Less tear and tensile strength vs. Sulfur Cured EPDM.
- Lower compression set resistance.
- Not recommended for mineral oils, greases or fuels.

#### TEMPERATURE RANGE

-58°F to +302°F (-50°C to +150°C)

#### ASTM CALLOUT

ASTM D2000 M2DA710 A26 B36 EA14 F19 Z

#### RECOMMENDED SHELF LIFE:

Unlimited

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ORIGINAL PROPERTIES					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
DUROMETER		D2240-15	SHORE A	70 ± 5	69
TENSILE STRENGTH		D412-16	MPA	14 MIN.	10
ELONGATION RESISTANCE		D412-16	%	257 MIN.	200
SPECIFIC GRAVITY		D297-15(19)	-	-	1.15

CHLORAMINE (50PPM) RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
DUROMETER CHANGE	Z	D6284 70 HOURS @ 70° C	SHORE A	-	-2
TENSILE STRENGTH CHANGE			%	-	+9
ELONGATION RESISTANCE CHANGE			%	-	+7
VOLUME CHANGE			%	-	+2

HEAT RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
DUROMETER CHANGE	A26	D573-04(19) 70 HOURS @ 150° C	SHORE A	+10 MAX	+3
TENSILE STRENGTH CHANGE			%	-20 MAX	-5
ELONGATION RESISTANCE CHANGE			%	-20 MAX	-13

COMPRESSION SET					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
ORIGINAL DEFLECTION	B36	D395-18 22 HOURS @ 150° C	%	40 MAX	17

WATER RESISTANCE					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
ORIGINAL DEFLECTION	EA14	D471-16A 70 HOURS @ 100° C	%	±5	+2

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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<b>LOW-TEMPERATURE RESISTANCE</b>					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
NON-BRITTLE	F19	D2137-11(18) 3MIN AT -55° C	PASS/FAIL	PASS	PASS

<b>NSF 61 LISTING</b>					
PROPERTIES	ASTM DESIGNATION	TEST METHOD	UNIT OF MEASURE	ASTM D2000 SPECIFICATION	E70-PC COMPOUND PROPERTY
NSF 61 LISTING	-	-	PASS/FAIL	PASS	PASS

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