

# The O-Ring Store LLC



We make getting o-rings easy!

## EPDM FDA 70 DUROMETER

### DATA SHEET FOR COMPOUND E70 METRIC

#### Compound Features:

- FDA compliant material.\*
- NSF 61 Listed
- Excellent resistance to hot water and steam (up to 400°F/148.9°C)
- Excellent low temperature flexibility.
- Resistance to ethylene glycol fluids.
- Good low temperature flexibility.
- Excellent resistance to alcohols.

#### Compound Limitations:

- Poor resistance to resistance to petroleum based products

#### Temperature Range:

-65°F to +300°F (-53.9°C to +148.9°C)

#### Cure System:

Peroxide

#### ASTM Callout:

ASTM D2000 M3DA710 A26 B36 EA14 F17

#### \*FDA:

CFR 177.2600

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 METRIC Compound Property
Durometer	-	D1415-12	Shore A	70± 5	67
Tensile Strength		D412-13	MPa	10 Min	17.1
Elongation Resistance		D412-13	%	150 Min	512
Specific Gravity		D297-13	-	Report	1.08
Cure System		-	-	-	-

HEAT AGE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 METRIC Compound Property
Durometer Change	A26	ASTM D573-10 70 Hours @ 150°C	Shore A	+10 Max	+4
Tensile Strength Change			%	-20 Max	-19
Elongation Resistance Change			%	-20 Max	-12

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 METRIC Compound Property
Original Deflection	B36	ASTM D395-08 22 Hours @ 150°C	%	25 Max	10

WATER RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 METRIC Compound Property
Change in Volume	EA14	ASTM D471-12A 70 Hours @ 100°C	%	±5	+2

LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 METRIC Compound Property
Brittleness	F18	D2137-11 3 Min @ -50°C	Pass/Fail	Pass	Pass/Non-Brittle

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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