

The O-Ring Store LLC



We make getting o-rings easy!

EPDM CORD 70 DUROMETER DATA SHEET FOR COMPOUND E70 CORD

Compound Features:

- Excellent resistance to hot water and steam (up to 400°F/148.9°C)
- Excellent low temperature flexibility.
- Resistance to ethylene glycol fluids.
- Sulfur curing offers better tear and abrasion resistance than peroxide cured EPDM.
- Good low temperature flexibility.
- Excellent resistance to automotive and aircraft brake fluids.
- Excellent resistance to fireproof aviation hydraulic fluids (Skydrol).

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:

Sulfur

ASTM Callout:

ASTM D2000 Grade M3BA 710 A14 B13 C12F9

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 CORD Compound Property
Durometer	-	D2240	Shore A	70 ±5	73
Ultimate Tensile Strength		D412	PSI	1450	1504
Ultimate Elongation		D412	%	250	310

HEAT RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 CORD Compound Property
Durometer Change	A14	D573 70 Hours @ 100°C	Shore A	+10 Max	+1
Tensile Strength Change			%	-25 Max	-4.5
Elongation Resistance Change			%	-45 Max	-22.6

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 CORD Compound Property
Set	B13	D395 22 Hours @ 100°C	%	25 Max	10.3

OZONE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 CORD Compound Property
Quality Retention	C12	D1171 70 Hours @ 100°C	%	100	100

LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	E70 CORD Compound Property
Brittle Point	F19	D2137 3 Min @ -55°C	Pass/Fail	NON-Brittle	Pass

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.

1847 Wilma DR - Clarkston, WA 99403 | Phone (208) 413-6377 Fax (208) 413-6719