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## Cord Compound E70CD Data Sheet

Material: Ethylene Propylene (EPDM)  
70 Durometer, Black

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### General Information:

EPDM possesses an excellent resistance to ozone, sunlight and weathering, and has very good flexibility at low temperature, good chemical resistance (many dilute acids and alkalis as well as polar solvents) and good electrical insulation property.

**Cure System:** *Sulfur-cured*

**Temperature Range:** -40°C (-40°F) to 121°C (250°F)

### Attributes:

Color: Black

Durometer Shore A: 70±5

Shelf-life: Unlimited

### Performs Well In:

- Petroleum based oils & fuels
- Aliphatic hydrocarbons
- Vegetable oils
- Silicone oils & greases
- Ethylene glycol
- Dilute acids
- Water to below 100°C (212°F)

### Doesn't Perform Well In:

- Aromatic hydrocarbons
- Automotive brake fluid
- Chlorinated hydrocarbons
- Ketones
- Ethers
- Esters
- Phosphate ester hydraulic fluids
- Strong acids
- Ozone / weathering / sunlight

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## TEST REPORT FOR CORD COMPOUND E70CD

MATERIAL: ETHYLENE PROPYLENE

DUROMETER: 70

COLOR: BLACK

ASTM\* D2000 M3BA710 A14 B13 C12 F17 Z1=FMVSS302

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
A14	<b>ORIGINAL PROPERTIES</b>			
	Durometer Hardness	70±5	73	D412-16
	Tensile Strength (PSI)	1450	1577	D412-16
	% Elongation	250	474	D412-16
B13	<b>COMPRESSION SET</b>			D395-16
	<b>22 hours at 70°C</b>			
	% Compression Set	25 MAX.	12.8	
C12	<b>HEAT AGING IN AIR</b>			D573-04
	<b>70 hours at 100°C</b>			
	Hardness (Points Change)	10 PT MAX	+4	
	Tensile (% Change)	-25 MAX.	-5	
	Elongation (% Change)	-25 MAX.	-19	
F17	<b>BRITTLENESS POINT METHOD A</b>			D2137-11
	Brittleness 3 Min. @ -40 °C		PASS	
	<b>METHOD A OZONE-TRIANGLE</b>			D1171-15
	70 Hrs. @ 40°C; 50 mPA of Ozone			
	Conditioned for 72 Hrs before exposure	RATING 0	0	
	<b>MISC PASS/FAIL</b>			
	FMVSS 302		PASS	

\*American Society for Testing and Materials

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