
Compound E70101 Data Sheet

Material: Ethylene Propylene (EPDM)
70 Durometer, Black

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: *Peroxide-cured*

Peroxide-cured compounds typically provide increased compression set resistance, higher temperature performance, higher ultimate tensile strength, and increased chemical resistance.

Temperature Range: -55°C (-67°F) to 125°C (257°F)

Attributes:

Color: Black

Durometer Shore A: 70±5

Shelf-life: Unlimited

Performs Well In:

- Alcohols
- Automotive brake fluid
- Ketones
- Dilute acids and alkalis
- Silicone oils and greases
- Steam up to 204.4°C (400°F)
- Water
- Phosphate ester based hydraulic fluids
- Ozone, aging and weather

Doesn't Perform Well In:

- Aliphatic and aromatic hydrocarbons
- Di-ester based lubricants
- Halogenated solvents
- Petroleum based oils and greases

Request A Quote

E
7
0
1
0
1

		TEST REPORT FOR COMPOUND E70101 MATERIAL: ETHYLENE PROPYLENE (EPDM) DUROMETER: 70 COLOR: BLACK ASTM* D2000 M3DA710 A26 B36 EA14 F19 G21		
SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	TYPICAL RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A (Type M)	70±5	69	D2240-15
	Tensile Strength, min, Mpa	10	13.2	D412-16
	Elongation, min, %	200	204	D412-16
	Specific Gravity (S.G)	report	1.15	D297-15
	Cure System		Peroxide	
A26	HEAT RESISTANCE			D573-15
	70 hours at 150°C			
	Hardness Change, points, max	+10	+3	
	Tensile Strength Change, %, max	-20	-8	
B36	COMPRESSION SET			D395-18B
	22 hours at 150°C, %, max	25	20	
EA14	WATER RESISTANCE			D471-16
	70 hours @ 100°C			
F19	Volume Change, %	±5	+2	D2137-11(18)
	LOW-TEMP RESISTANCE			
G21	Nonbrittle after 3 minutes at -55°C	Pass	Pass	D624-12
	TEAR RESISTANCE, DIE C			
	min, kN/m	17	37	

*American Society for Testing and Materials

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal 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 prior to use.