
Compound E70101 Data Sheet

Material: Ethylene Propylene (EPDM)

Black, 70 Durometer, General Purpose

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

General Purpose

Peroxide-cured

Performs Well In:

Alcohols
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

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Material Test Report

Compound E70101

EPDM, Black, General Purpose

GENERAL		
Material:	EPDM	
Durometer:	70	
Color:	Black	
ASTM* D2000 Callout:	M2DA710 A26 B36 EA14 F18 G11	
ORIGINAL PROPERTIES	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Hardness, Shore A, pts, ASTM D2240-15	70±5	69
Tensile Strength, psi, min, ASTM D412-16	1450 (min)	1973
Elongation, min, %, ASTM D412-16	200 (min)	255
Modulus @ 100%, psi, ASTM D412-16		782
Density, Mg/m ³ , CNS 5341-96, Method A		1.27
HEAT AGE, A26 (70 hrs. @ 150°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Hardness Change, pts, Shore A, ASTM D573-04	+10 (max)	+4
Tensile Strength Change, %, ASTM D573-04	-20 (max)	-11
Elongation Change, %, ASTM D573-04	-20 (max)	-10
COMPRESSION SET, B36 (22 hrs. @ 150°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
ASTM D395-18, Method B	40% (button) (max)	19.0
WATER RESISTANCE, EA14 (70 hrs. @ 100°C)	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Hardness Change, pts, Shore A, ASTM D471-16a		+1
Tensile Strength Change, %, ASTM D471-16a		0
Elongation Change, %, ASTM D471-16a		-22
Volume Change, %, ASTM D471-16a	±5	+1.6
LOW TEMP RESISTANCE, F18	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
Nonbrittle after 3 min. @ -50°C, ASTM D2137-11	pass	pass
TEAR RESISTANCE, DIE B, G11	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
mkN/m, ASTM D624-12	17 (min)	44

*American Society for Testing and Materials

Report Date: 9/12/2022

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