

Material Test Report

Compound E70-C101

EPDM, Black, General Purpose

Material Summary		
Material Type:	EPDM	
Durometer:	70	
Color:	Black	
Special Properties:		
Recommended Temperature Range (Static):	-55°C (-67°F) to 125°C (257°F)	
Cure System:	Peroxide	
Meets Specification:	ASTM D2000 M2DA710 A26 B36 EA14 F18 G11	
Original Properties	Requirements	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)	Requirements	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)	Requirements	Typical Results
ASTM D395-18, Method B	40% (button) (max)	19.0
WATER RESISTANCE, EA14 (70 hrs. @ 100°C)	Requirements	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	Requirements	Typical Results
Nonbrittle after 3 min. @ -50°C, ASTM D2137-11	pass	pass
TEAR RESISTANCE, DIE B, G11	Requirements	Typical Results
mkN/m, ASTM D624-12	17 (min)	44

Compound Previously Known As: E70101

Report Date: 9/12/2022

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.