

Material Test Report

Compound E70-B108

EPDM, Black, UL 157

Material Summary		
Material Type:	EPDM	
Durometer:	70	
Color:	Black	
Special Properties:	UL 157	
Recommended Temperature Range (Static):	-55°C (-67°F) to 150°C (302°F)	
Cure System:	Peroxide	
Meets Specification:	ASTM D2000 M3DA710 A26 B36 C32 EA14 F19 G11	
Original Properties	Requirements	Typical Results
Hardness,(Shore A) (ASTM D2240-15)	70±5	71
Tensile Strength,psi(MPa) (ASTM D412-16)	1450(min)	2180(15.03)
Elongation,(%) (ASTM D412-16)	200(min)	260
Modulus at 100%,psi(MPa) (ASTM D412-16)	-	711(4.90)
Density,(Mg/m ³) (CNS 5341-96,Method A)	-	1.16
(G11) Tear resistance, (ASTM D624-00)		
-	17kN/m(Die B)(min)	25.47
(A26) Heat age, 70 Hrs @ 150 °C (ASTM D865-11)		
Hardness Change, pts.	+10(max)	+1
Tensile Strength Change, %	-20(max)	-3
Elongation Change, %	-20(max)	+7
Weight Change, %	-	+0.2
(B36) Compression set, 22 Hrs @ 150 °C (ASTM D395-18, Method B)		
-	25%(plied)(max)	13.8
(C32) Ozone 50pphm, 70 Hrs @ 40 °C (ASTM D1171-99)		
-	-	no-crack
(EA14) Water resistance, 70 Hrs @ 100 °C (ASTM D471-16a)		
Hardness Change, pts.	-	-1
Tensile Strength Change, %	-	-8
Elongation Change, %	-	0
Weight Change, %	±5	+2.6
(F19) Low-Temperature Brittleness Point Test, 3 minute @ -55 °C (ASTM D2137-11, Method C)		
Sample type: T-50,	+10(max)	+1
Coolant : Isopropyl alcohol,	-20(max)	-3
Brittleness temperature to nearest 1°C,	-20(max)	+7

Report Date: 1/31/2024

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.