

Material Datasheet

Compound #: E70118

EPDM, FDA Compliant, NSF61 Certified

Material Summary

Material Type:	EPDM
Durometer:	70
Color:	Black
Special Properties:	NSF61 certified, FDA compliant
Recommended Temperature Range (Static):	-55°C to 125°C
Cure System:	Sulfur
Specification:	ASTM D2000 M5CA710 A25 B35 C32 EA14 F17 G21

Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15 ^{e1})	70±5	72
Tensile Strength, psi (MPa) (ASTM D412-16)	1450(10)(min)	1529(10.54)
Elongation, (%) (ASTM D412-16)	200(min)	285
Modulus at 100%, psi (MPa) (ASTM D412-16)		685(4.72)
Density, (Mg/m ³) (CNS 5341-96, Method A)		1.27
(G21) Tear Resistance, (ASTM D624-00)		
-	26kN/m(die C)(min)	27.12
(A25) Heat Age, 70 Hrs @ 125 °C (ASTM D865-11)		
Hardness Change, pts	+10(max)	1
Tensile Strength Change, %	-20(max)	1
Elongation Change, %	-40(max)	-15
Volume Change, %		0.2
(B35) Compression Set, 22 h at 125C, ASTM D395 Method B		
	50%(plied)(max)	47.2
(EA14) Water Resistance, 70 Hrs @ 100 °C (ASTM D471-16a)		
Hardness Change, pts		0
Tensile Strength Change, %		-4
Elongation Change, %		-9
Volume Change, %	±5	1.0
(C32) Ozone 50 pphm, 70 Hrs @ 40 °C (ASTM D1171-18)		
-	no-cracks	pass

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(F17) Low-Temperature Brittleness Point Test, 3 minute @ -40 °C (ASTM D2137-11, Method C)

Sample type: T-50,		
Coolant : Isopropyl alcohol,		
Low Temperature Property,	no-cracks	pass

*American Society for Testing and Materials

Report Date: 1/2/2019

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.