



MR O-RING

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Material Datasheet

Compound #: N70C

Nitrile (NBR, Buna), Black, General Purpose

Material Summary		
Material Type:	NBR	
Durometer:	70	
Color:	Black	
Recommended Temperature Range (Static):	-40°C to 100°C	
Cure System:	Sulfur	
Specification:	ASTM D2000-05 M5BG710 A14 B14 C12 EO14 EO34 F17	
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)	1755(12.1)
Elongation, (%) (ASTM D412-16)	250	285
(A14) Oven Aged, 70 Hrs @ 100 °C (ASTM D573)		
Hardness Change, pts.	±15	+5
Tensile Strength Change, %	-20(max)	+6.2
Elongation Change, %	-40(max)	-22.7
(B14) Compression set, 22 Hrs @ 100 °C (ASTM D395,Method B)		
-	25%(button)(max)	17.1
(F17) Low Temperature, 3 Min. @ -40 °C (ASTM D2137,Method A)		
-	No Crack	Pass
(C12) Ozone Resistance, 100 Hrs @ 38 °C (ASTM D1171, Method B)		
-	No Crack	Pass
(EO14) IRM 901 Oil, 70 Hrs @ 100 °C (ASTM D471)		
Hardness Change, pts.	-5~+15	+4
Tensile Strength Change, %	-25(max)	+8.1
Elongation Change, %	-45(max)	-22.5
Volume Change, %	-10~+5	-7.5
(EO34) IRM 903 Oil, 70 Hrs @ 100 °C (ASTM D471)		
Hardness Change, pts.	15~0	-10
Tensile Strength Change, %	-45(max)	-7.4
Elongation Change, %	-45(max)	-16.3
Volume Change, %	0~+35	+18

*American Society for Testing and Materials

Information within this report is believed to be accurate and reliable. However, Mr. O-Ring 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.