



# MR O-RING

THE EASIEST WAY TO  
BUY O-RINGS ONLINE

## 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)	70±5	72
Tensile Strength, min., psi(MPa) (ASTM D412)	1450(10)	1755(12.1)
Elongation, %, min. (ASTM D412)	250	285
<b>(A14) Oven Aged, 70 Hrs @ 100 °C (ASTM D573)</b>		
Hardness Change, max., pts.	±15	+5
Tensile Strength Change, %	-20(max)	+6.2
Elongation Change, %	-40(max)	-22.7
<b>(B14) Compression set, 22 Hrs @ 100 °C (ASTM D395, Method B)</b>		
-	25%(button)(max)	17.1
<b>(F17) Low Temperature, 3 Min. @ -40 °C (ASTM D2137, Method A)</b>		
-	No Crack	Pass
<b>(C12) Ozone Resistance, 100 Hrs @ 38 °C (ASTM D1171, Method B)</b>		
50 mPa (50 pphm) Ozone	No Crack	Pass
<b>(EO14) IRM 901 Oil, 70 Hrs @ 100 °C (ASTM D471)</b>		
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
<b>(EO34) IRM 903 Oil, 70 Hrs @ 100 °C (ASTM D471)</b>		
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.