



MR O-RING

QUALITY YOU TRUST, SERVICE YOU RELY ON

Material Datasheet

Compound #: V75

Genuine Viton®, General Purpose

Material Summary		
Material Type:	FKM	
Durometer:	75	
Color:	Black	
Recommended Temperature Range (Static):	-25°C to 250°C	
Cure System:	Bisphenol	
Specification:	ASTM D2000 M4HK715 A1-11 B38 C12 C20 EF31 EO78 Z1	
(Z1) Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15)	75±5	78
Tensile Strength, psi(MPa) (ASTM D412-16)	1500(10.34)(min)	2189(15.09)
Elongation, (%) (ASTM D412-16)	175(min)	184
Modulus at 100%, psi(MPa) (ASTM D412-16)		1110(7.65)
Density, (Mg/m ³) (CNS 5341-96, Method A)		1.84
(A1-11) Heat age, 70 Hrs @ 275°C (ASTM D573-04)		
Hardness Change, pts.	+10(max)	+5
Tensile Strength Change, %	-40(max)	-22
Elongation Change, %	-20(max)	+21
Weight Change, %		-5.3
(B38) Compression set, 22 Hrs @ 200°C (ASTM D395-18, Method B)		
-	50%(plied)(max)	12.6
(C12) Ozone Resistance, 50 pphm, 70 Hrs @ 40°C (ASTM D1171-18)		
-	no-crack	pass
(C20) Outdoor Aging Resistance (ASTM D1171-18)		
-	no-crack	pass
(EF31) ASTM Fuel C Resistance, 70 Hrs @ 23°C (ASTM D471-16a)		
Hardness Change, pts.	±5	-1
Tensile Strength Change, %	-25(max)	-7
Elongation Change, %	-20(max)	-3
Volume Change, %	0 to +10	+3.5



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(EO78) ASTM No. 101 Oil, 70 Hrs @ 200 °C (ASTM D471-16a)

Hardness Change, pts.	-15 to +5	-6
Tensile Strength Change, %	-40(max)	-9
Elongation Change, %	-20(max)	+2
Volume Change, %	0 to +15	+9.2

*American Society for Testing and Materials

Report Date: 3/5/2020

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.