



MR O-RING

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Material Datasheet

Compound #: BV75

Genuine Viton®, General Purpose

Material Summary		
Material Type:	FKM	
Durometer:	75	
Color:	Brown	
Recommended Temperature Range (Static):	-25°C to 250°C	
Cure System:	Bisphenol	
Specification:	ASTM D2000 M2HK710 A1-10 B37 EF31 EO78 Z1	
(Z1) Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15)	75±5	74
Tensile Strength, psi(MPa) (ASTM D412-16)	1450(10)(min)	2205(15.21)
Elongation, (%) (ASTM D412-16)	175(min)	195
Modulus at 100%, psi(MPa) (ASTM D412-16)		1181(8.14)
Density, (Mg/m ³) (CNS 5341-96, Method A)		2.04
(A1-10) Heat age, 70 Hrs @ 250 °C (ASTM D573-04)		
Hardness Change, pts.	+10(max)	+1
Tensile Strength Change, %	-25(max)	+4
Elongation Change, %	-25(max)	-18
Weight Change, %		-2.5
(EF31) ASTM Fuel C Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)		
Hardness Change, pts.	±5	-3
Tensile Strength Change, %	-25(max)	-14
Elongation Change, %	-20(max)	-1
Volume Change, %	0 to +10	+3.2
(EO78) ASTM No. 101 Oil, 70 Hrs @ 200 °C (ASTM D471-16a)		
Hardness Change, pts.	-15 to +5	-5
Tensile Strength Change, %	-40(max)	-13
Elongation Change, %	-20(max)	-8
Volume Change, %	0 to +15	+10

*American Society for Testing and Materials

Report Date: 12/13/2019

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.