

## Material Datasheet

**Compound #: V75-B109**

**Viton (FKM), General Purpose**

Material Summary		
Material Type:	FKM	
Durometer:	75	
Color:	Black	
Special Properties:		
Recommended Temperature Range (Static):	-25°C (-13°F) to 250°C (482°F)	
Cure System:	Bisphenol Cured	
Meets Specification:	ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78	
Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15)	70±5	74
Tensile Strength, psi(MPa) (ASTM D412-16)	1450(10)(min)	2009(13.86)
Elongation, (%) (ASTM D412-16)	175(min)	207
Modulus at 100%, psi(MPa) (ASTM D412-16)		1179(8.13)
Density, (Mg/m <sup>3</sup> ) (CNS 5341-96, Method A)		1.99
(A1-10) Heat age, 70 Hrs @ 250 °C (ASTM D573-04)	Requirements	Typical Results
Hardness Change, pts.	+10(max)	+1
Tensile Strength Change, %	-25(max)	-4
Elongation Change, %	-25(max)	+2
Weight Change, %		-1.5
(B37) Compression set, 22 Hrs @ 175 °C (ASTM D395-18, Method B)	Requirements	Typical Results
-	50%(plied)(max)	23.8
(B38) Compression set, 22 Hrs @ 200 °C (ASTM D395-18, Method B)	Requirements	Typical Results
-	50%(plied)(max)	29.5
(EF31) ASTM Fuel C Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)	Requirements	Typical Results
Hardness Change, pts.	±5	-4
Tensile Strength Change, %	-25(max)	-16
Elongation Change, %	-20(max)	+10
Volume Change, %	0~+10	+2.8
(EO78) ASTM No. 101 Oil, 70 Hrs @ 200 °C (ASTM D471-16a)	Requirements	Typical Results
Hardness Change, pts.	-15~+5	-7
Tensile Strength Change, %	-40(max)	-22
Elongation Change, %	-20(max)	-2
Volume Change, %	0~+15	+10.2

Report Date: 6/28/22

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