

Material Datasheet

Compound #: V70601

FKM, General Purpose

Material Summary

Material Type:	FKM
Durometer:	70
Color:	Red (Rust)
Special Properties:	-
Specification:	ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78 EO88 F15

Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15 ^{e1})	70±5	73
Tensile Strength, psi(MPa) (ASTM D412-16)	1450(10)(min)	1590(10.97)
Elongation, (%) (ASTM D412-16)	175(min)	209
Modulus at 100%, psi(MPa) (ASTM D412-16)		1037(7.15)
Density, (Mg/m ³) (CNS 5341-96, Method A)		2.15
(A1-10) Heat age, 70 Hrs @ 250 °C (ASTM D573-04)		
Hardness Change, pts.	+10(max)	-1
Tensile Strength Change, %	-25(max)	+5
Elongation Change, %	-25(max)	-6
Weight Change, %		-2.0
(B37) Compression set, 22(Hrs) @ 175 °C (ASTM D395-18, Method B)		
-	50%(plied)(max)	11.4
(B38) Compression set, 22 Hrs @ 200 °C (ASTM D395-18, Method B)		
-	50%(plied)(max)	14.8
(EF31) ASTM Fuel C Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)		
Hardness Change, pts.	±5	-2
Tensile Strength Change, %	-25(max)	-11
Elongation Change, %	-20(max)	-5
Volume Change, %	0~+10	+2.9
(EO78) ASTM No. 101 Oil, 70 Hrs @ 200 °C (ASTM D471-16a)		
Hardness Change, pts.	-15~+5	-5
Tensile Strength Change, %	-40(max)	-8
Elongation Change, %	-20(max)	-7
Volume Change, %	0~+15	+7.2

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(EO88) Mobil Jet Oil II, 70 Hrs @ 200 °C (ASTM D471-16a)

Hardness Change, pts.	-15~+5	-6
Tensile Strength Change, %	-40(max)	-4
Elongation Change, %	-20(max)	-1
Volume Change, %	+25(max)	+11.5

(F15) Low-Temperature Brittleness Point Test, 3 minute @ -25 °C (ASTM D2137-11, Method C)

Sample type: T-50,		
Coolant : Isopropyl alcohol,		
Low Temperature Property,	no-cracks	pass

Report Date: 5/26/2021

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