



Engineered Seal Products
 5920 Dry Creek Ln NE
 Cedar Rapids, IA 52402
www.espint.com

V8090

Revision: A

MATERIAL: FKM
COMPOUND: V8090
SPECIFICATION: ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78 EO88 F15
COLOR: BLACK
CERTIFICATIONS: UL RECOGNIZED
ADDITIONAL NOTES: PEROXIDE CURED

Spec	<u>Original Physical and Mechanical Properties</u>	<u>Requirements</u>	<u>Result</u>
	Hardness, Shore A Pts, ASTM D 2240	70±5	71
	Tensile Strength, MPa (psi) min., ASTM D 412	10.0 (1450)	16.87 (2446)
	Ultimate Elongation, % min., ASTM D 412	175	255
	Modulus @ 100%, MPa (psi), ASTM D 412	-	4.48 (650)
	Density, Mg/m ³	-	1.88
A1-10	<u>Heat Resistance (ASTM D 573) 70 h @ 250°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts max.	10	1
	Change in Tensile, % max.	-25	-24
	Change in Elongation, % max.	-25	50
	Change in Weight, %	-	-1.4
B37	<u>Compression Set (ASTM D 395, Method B) 22 h @ 175°C</u>	<u>Requirements</u>	<u>Result</u>
	% Of Original Deflection, max.	50	15.7
B38	<u>Compression Set (ASTM D 395, Method B) 22 h @ 200°C</u>	<u>Requirements</u>	<u>Result</u>
	% Of Original Deflection, max.	50	20.8

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above



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		<u>Requirements</u>	<u>Result</u>
EF31	<u>Fluid Resistance (ASTM D 471) 70 h in ASTM Fuel C @ 23°C</u>		
	Change in Hardness, Pts	±5	-3
	Change in Tensile, % max.	-25	-25
	Change in Elongation, % max.	-20	-15
	Change in Volume, %	0~+10	4.8
EO78	<u>Fluid Resistance (ASTM D 471) 70 h in Liquid No. 101 @ 200°C</u>		
	Change in Hardness, Pts	-15~+5	-4
	Change in Tensile, % max.	-40	-20
	Change in Elongation, % max.	-20	-9
	Change in Volume, %	0~+15	8.5
EO88	<u>Fluid Resistance (ASTM D 471) 70 h in Mobil Jet Oil II @ 200°C</u>		
	Change in Hardness, Pts	-15~+5	-4
	Change in Tensile, % max.	-40	-15
	Change in Elongation, % max.	-20	-6
	Change in Volume, % max.	25	6.3
F15	<u>Low Temperature Brittleness Point Test (ASTM D 2137, Method C)</u>		
	<u>3 min. @ -25°C</u> Sample type: T-50, Coolant: Isopropyl alcohol Low Temperature Property	<u>Requirements</u> No Crack	<u>Result</u> Pass

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