



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

V8091

Revision: A

MATERIAL: FKM
COMPOUND: V8091
SPECIFICATION: ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78 Z1
COLOR: BLACK
CERTIFICATIONS: UL RECOGNIZED
ADDITIONAL NOTES: BISPHENOL CURED

Spec	<u>Original Physical and Mechanical Properties</u>	<u>Requirements</u>	<u>Result</u>
Z1	Hardness, Shore A Pts, ASTM D 2240	75±5	76
	Tensile Strength, MPa (psi) min., ASTM D 412	10.0 (1450)	13.99 (2028)
	Ultimate Elongation, % min., ASTM D 412	175	188
	Modulus @ 100%, MPa (psi), ASTM D 412	-	7.96 (1154)
	Density, Mg/m ³	-	1.84
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	-2
	Change in Elongation, % max.	-25	-13
	Change in Weight, %	-	-1.9
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	9.4
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	11.8
EF31	<u>Fluid Resistance (ASTM D 471) 70 h in ASTM Fuel C @ 23°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±5	-2
	Change in Tensile, % max.	-25	-15
	Change in Elongation, % max.	-20	-11
	Change in Volume, %	0~+10	+2.8

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



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

V8091

Revision: A

EO78	<u>Fluid Resistance (ASTM D 471) 70 h in Liquid No. 101 @ 200°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-15~+5	-5
	Change in Tensile, % max.	-40	-6
	Change in Elongation, % max.	-20	-11
	Change in Volume, %	0~+15	9.4

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