



ESP International
5920 Dry Creek Ln NE
Cedar Rapids, IA 52402
www.espint.com

5004-V90

Revision: A

CONTACT US

MATERIAL: FKM
COMPOUND: 5004-V90
SPECIFICATION: ASTM D 2000 M7HK910 A1-11 B38 EF31 EO88 Z1
COLOR: Black
CERTIFICATIONS: None
ADDITIONAL NOTES: -

Spec	<u>Original Physical and Mechanical Properties</u>	<u>Requirements</u>	<u>Result</u>
	Hardness, Shore A Pts, ASTM D 2240	90±5	92
	Tensile Strength, MPa (psi) min., ASTM D 412	10.0 (1450)	15.1 (2193)
	Ultimate Elongation, % min., ASTM D 412	100	127
	Modulus @ 100%, MPa (psi), ASTM D 412	-	12.0 (1742)
	Density, (Mg/m ³)	-	1.84
A1-11	<u>Heat Resistance (ASTM D 573) 70 h @ 275°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts max.	-5~+10	1
	Change in Tensile, % max.	-40	-28
	Change in Elongation, % max.	-20	6
	Change in Weight, % max.	-	-4.6
B38	<u>Compression Set (ASTM D 395, Method B) 22 h @ 200°C</u>	<u>Requirements</u>	<u>Result</u>
	% of Original Deflection, max.	20	18.2
EF31	<u>Fluid resistance (ASTM D471) 70 h in Reference Fuel C @ 23°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±5	-4
	Change in Tensile, % max.	-25	-7
	Change in Elongation, % max.	-20	-3
	Change in Volume, %	0~+10	2.1

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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EO88	<u>Fluid Resistance (ASTM D 471) 70 h in Hatco 7700 Fluid @ 200°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-15~+5	-14
	Change in Tensile, % max.	-40	-4
	Change in Elongation, % max.	-20	5
	Change in Volume, % max.	25	15.8
Z1	<u>Low Temperature Retraction (ASTM D 1329) 51 mm Die, 50% Elongation</u>	<u>Requirements</u>	<u>Result</u>
	TR10 Temperature, °C, max.	-15	-17.2

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