



ESP International  
5920 Dry Creek Ln NE  
Cedar Rapids, IA 52402  
[www.espint.com](http://www.espint.com)

# 5002-V75

Revision: A

**CONTACT US**

**MATERIAL:** FKM  
**COMPOUND:** 5002-V75  
**SPECIFICATION:** ASTM D2000 M2HK810 A1-10 B38 C12 EF31 EO78 EO88 Z1  
**COLOR:** Brown  
**CERTIFICATIONS:** None  
**ADDITIONAL NOTES:** -

Spec	<u>Original Physical 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)	13.3 (1935)
	Ultimate Elongation, % min., ASTM D412	150	199
	Modulus @ 100%, MPa (psi), ASTM D 412	-	7.28 (1055)
	Density, Mg/m <sup>3</sup>	-	2.04
A1-10	<b><u>Heat Resistance (ASTM D 573) 70 h @ 250°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts max.	10	2
	Change in Tensile, % max.	-25	14
	Change in Elongation, % max.	-25	-16
Change in Weight, % max.	-	-1.9	
B38	<b><u>Compression Set (ASTM D 395, Method B) 22 h @ 200°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
% of Original Deflection, max.	50	14	
C12	<b><u>Ozone Resistance (ASTM D 1171, Method B) 50 pphm,70 h @ 40°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
Change in Visual Appearance	No Cracks	Pass	
EF31	<b><u>Fluid Resistance (ASTM D471) 70 h in Reference Fuel C @ 23°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	±5	-1
	Change in Tensile, % max.	-25	-9
	Change in Elongation, % max	-20	-6
Change in Volume, %	0~+10	3.9	

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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<b>EO78</b>	<b><u>Fluid Resistance (ASTM D471) 70 h in Liquid No. 101 @ 200°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	-15~+5	-6
	Change in Tensile, % max.	-40	-10
	Change in Elongation, % max.	-20	-11
	Change in Volume, %	0~+15	10.1
<b>EO88</b>	<b><u>Fluid Resistance (ASTM D471) 70 h in Hatco 7700 Oil@ 200°C</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	Change in Hardness, Pts	-15~+5	-11
	Change in Tensile, % max.	-40	-21
	Change in Elongation, % max.	-20	-18
	Change in Volume, % max.	25	18.8
	<b><u>Low Temperature Retraction (ASTM D 1329)</u></b>	<b><u>Requirements</u></b>	<b><u>Result</u></b>
	TR10 Temperature, °C	-	-17.5

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