



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

5001-V75

Revision: A

[CONTACT US](#)

MATERIAL: FKM
COMPOUND: 5001-V75
SPECIFICATION: ASTM D2000 M6HK810 A1-10 B38 C12 C20 EF31 EO88 Z1 Z2
COLOR: Black
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)	12.2 (1773)
	Ultimate Elongation, % min., ASTM D412	150	201
	Modulus @ 100%, MPa (psi), ASTM D 412	-	5.75 (834)
	Density, (Mg/m ³)	-	1.85
A1-10	<u>Heat Resistance (ASTM D 573) 70 h @ 250°C</u>		
	Change in Hardness, Pts max.	10	+2
	Change in Tensile, % max.	-25	+5
	Change in Elongation, % max.	-25	-8
Change in Weight, % max.	-	-1.6	
B38	<u>Compression Set (ASTM D 395, Method B) 22 h @ 200°C</u>		
% of Original Deflection, max.	15	12.8	
C12	<u>Resistance to Ozone (ASTM D 1171)</u>		
Quality Retention Rating, % min.	No Cracks	Pass	
C20	<u>Resistance to Outdoor Aging (ASTM D 1171)</u>		
Change in Visual Appearance	No Cracks	Pass	

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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EF31	<u>Fluid resistance (ASTM D471) 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	-14
	Change in Elongation, % max.	-20	-12
	Change in Volume, %	0~+10	+3.2
EO88	<u>Fluid Resistance (ASTM D 471) 70 h in SAE Fluid No. 2, Blend 7700 @ 200°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-15~+5	-11
	Change in Tensile, % max.	-40	-21
	Change in Elongation, % max.	-20	-14
	Change in Volume, % max.	25	16.3
Z2	<u>Low Temperature Retraction (ASTM D 1329)</u>	<u>Requirements</u>	<u>Result</u>
	TR10, °C	-	-16.8

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