



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

N8009

Revision: B

MATERIAL: NBR
COMPOUND: N8009
SPECIFICATION: ASTM D2000 5BG515 A14 B14 EO14 EO34 F15
COLOR: BLACK
CERTIFICATIONS: UL RECOGNIZED
ADDITIONAL NOTES: SULFUR CURED

Spec	<u>Original Physical and Mechanical Properties</u>	<u>Requirements</u>	<u>Result</u>
	Hardness, Shore A Pts, ASTM D 2240	50±5	52
	Tensile Strength, MPa (psi) min., ASTM D 412	10.34 (1500)	11.68 (1695)
	Ultimate Elongation, % min., ASTM D 412	300	587
	Modulus @ 100%, MPa (psi), ASTM D 412	-	2.1 (305)
A14	<u>Heat Resistance (ASTM D 573) 70 h @ 100°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	±15	2
	Change in Tensile, % max.	-20	0
	Change in Elongation, % max.	-40	-3
	Change in Weight, %	-	-2.2
B14	<u>Compression Set (ASTM D 395, Method B) 22 h @ 100°C</u>	<u>Requirements</u>	<u>Result</u>
	% Of Original Deflection, max.	25	13.0
EO14	<u>Fluid Resistance (ASTM D 471) 70 h in IRM901 Oil @ 100°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-5~+15	8
	Change in Tensile, % max.	-25	3
	Change in Elongation, % max.	-45	-15
	Change in Volume, %	-10~+5	-9.3

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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EO34	<u>Fluid Resistance (ASTM D 471) 70 h in IRM903 Oil @ 100°C</u>	<u>Requirements</u>	<u>Result</u>
	Change in Hardness, Pts	-15~0	-2
	Change in Tensile, % max.	-45	14
	Change in Elongation, % max.	-45	-1
	Change in Volume, %	0~+35	4.3
F15	<u>Low Temperature Brittleness Point Test (ASTM D 2137, Method C) 3 min. @ -25°C</u>	<u>Requirements</u>	<u>Result</u>
	Sample type: T-50, Coolant: Isopropyl alcohol, Low Temperature Property,	No Crack	Pass

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