

Bonded Seal NBR Mild Steel

ASTM Designation	CHARACTERISTICS	Requirements	Results
910	Physical Properties 23°C		
	Hardness, ASTM D2240, Shore A	85.000 ~ 95.000	86.000 PTS
	Tensile Strength, ASTM D412, Min	10.000 MIN	14.060 MPA
	Ultimate Elongation, ASTM D412, Min	100.000 MIN	127.000%
	Modulus At 100%, ASTM D412, Min		1.200 MPA
	Specific Gravity, ASTM D297	1.310 ~ 1.370	1.360
A17	Heat Resistance, ASTM D573, 70H, 100°C		
	Change In Hardness	-15.000 ~15.000	3.000 PTS
	Change In Tensile Strength	-20.000 MIN	0.000%
	Change In Ultimate Elongation	-40.000 MIN	-19.000%
	Change In Volume		-1.600%
B14	Compression Set, ASTM D395, 22H, M Method B, Solid, 100°C		
	Compression Set	25. 000 MAX	8.000%
E014	Oil Resistance, ASTM D471, ASTM 01 IL No.1, 70H, 100°C		
	Change In Hardness	-5.000 ~15.000	7. 000 PTS
	Change In Tensile Strength	-25.000 MIN	12.000 %
	Change In Ultimate Elongation	-45.000 MIN	-9.000 %
	Change In Volume	-10.000 ~ 5.000	-7. 500 %
E034	Oil Resistance, ASTM D471, ASTM 01 IL IRM 903, 70H, 100°C		
	Change In Hardness	-20.000 ~0.000	0.000 PTS
	Change In Tensile Strength	-45.000 MIN	11.000%
	Change In Ultimate Elongation	-45.000 MIN	-7.000%
	Change In Volume	0. 000 ~ 35. 000	2.900%
EF11	Fluid Resistance, ASTM D471, Reference Fuel A, 70H, 23°C		
	Change In Hardness		0.000 PTS
	Change In Tensile Strength		-6.000 %
	Change In Ultimate Elongation		-7.000 %
	Change In Volume		0.800 %

Note: 1. The data is obtained by testing slab/button and are for reference only.
2. Our compound can meet above ASTM D2000 required.



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ASTM Designation	CHARACTERISTICS	Requirements	Results
EF21	Fluid Resistance, ASTM D471, Reference Fuel B, 70H, 23°C		
	Change In Hardness		-13.000 PTS
	Change In Tensile Strength		-26.000%
Z1	Chemical Composition, 23°C		
	Carbon	0.120 MAX	0.030%
	Manganese	0.500 MAX	0.180%
	Phosphorus	0.040 MAX	0.009%
	Sulfur	0.045 MAX	0.005%
	Silicon	0.050 MAX	0.010%
Z2	Physical Test, 23°C		
	Hardness, RB	50.000 MIN	54.000 PTS

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THESE RESULTS ARE FOR REFERENCE PURPOSES ONLY AND M SEALS UK LTD MAKES NO WARRANTY, EXPRESSED OR IMPLIED, THAT PARTS MANUFACTURED IN THIS COMPOUND WILL PERFORM SATISFACTORILY IN THE CUSTOMER'S APPLICATION. IT IS THE CUSTOMER'S RESPONSIBILITY TO TEST PARTS PRIOR TO THEIR USE .