EUROPE SEALS BV

Test Report

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Material: NBR90

Specification: ASTM D2000 7BG915 B14 EF11 EF21 EO14 EO34 F16 Z1=A14 Heat Aged Resistance Basic Requirements

	Original Properties:	Required	Result
	Hardness, Shore A, pts	90+/-5	89
	Tensile Strength, psi	1500	1940
	Elongation, min, %	100	265
A14	Heat Aged: 70 h at 100°C, ASTM D573		
	Hardness Change, pts, Shore A	+/-15	+3
	Tensile Strength Change, %	+/-30	+2
	Elongation Change, %	-50	-26
B14	Compression Set, 22 h at 100°C, ASTM D395 Method B, Deflection 25%, max	25	14
EF11	Fluid Resistance, Fuel A, 70 h at 23°C, ASTM D471		
	Hardness Change, pts, Shore A	+/-10	- 1
	Tensile Strength Change, %	-25	-9
	Elongation Change, %	-25	-11
	Volume Change, %	-5 ~ +10	+2
EF21	Fluid Resistance, Fuel B, 70 h at 23°C, ASTM D471		
	Hardness Change, pts, Shore A	0 ~ -30	-11
	Tensile Strength Change, %	-60	-37
	Elongation Change, %	-60	-41
	Volume Change, %	0 ~ +40	+26
EO14	Fluid Resistance, ASTM #1 Oil, 70 h at 100°C, ASTM D471		
	Hardness Change, pts	-5 ~ +5	+ 3
	Tensile Strength Change, %	-25	+15
	Elongation Change, %	-45	-20
	Volume Change, %	-10 ~ +5	- 6.7

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Fluid Resistance, ASTM #3 Oil, 70 h at 100°C, ASTM D471

EO34			
	Hardness Change, pts, Shore A	-10 to +5	-9
	Tensile Strength Change, %	-45	-13
	Elongation Change, %	-45	-15
	Volume Change, %	0 to +25	+8.1
F16	Low Temperature Resistance, ASTM D2137, Method A, 9.3.2 nonbrittle after 3 min at –35°C	Pass	Pass

* This test result is based on the test slabs and test buttons. The actual parts will be different with the above test results.

2005-1-3/gf