



EUROPE SEALS BV

Test Report

Material: N7101
(Drinking) Water approvals: KTW FDA NSF61
CNG+ LPG Gas ; UL, R67/01, R110, ISI 15500
Fuel Diesel; UL

Specification: ASTM D2000 2BG 715 B14 EA14 EF11 EF21 EO14 EO34 F17
Z1=A14

<u>Original Properties:</u>	<u>Required</u>	<u>Result</u>
Hardness, Shore A, pts	70 ±5	71
Tensile Strength, psi	1500	2260
Elongation, min, %	250	420
A14 <u>Heat Aged: 70 h at 100°C, ASTM D573</u>		
Hardness Change, pts,	±15	4
Elongation Change, %	-50	-22
Tensile Strength Change, %	±30	+6
B14 <u>Compression Set, 22 h at 100°C, ASTM D395 Method B, Deflection 25%, Max</u>	25	13.2
EA14 <u>Water Resistance, 100°C x 70 hours, ASTM D471</u>		
Hardness Change, pts,	±10	-3
Volume Change, %	±15	+5
EF11 <u>Fluid Resistance, ASTM D471 Reference Fuel A, 70 h at 23°C</u>		
Hardness Change, pts	±10	-2
Elongation Change, %	-25	-15
Tensile Strength Change, %	-25	-7
Volume Change, %	-5 ~ +10	+2
EF21 <u>Fluid Resistance, ASTM D471 Reference Fuel B, 70 h at 23°C</u>		

	Hardness Change, pts	0 ~ -30	-11
	Elongation Change, %	-60	-29
	Tensile Strength Change, %	-60	-24
	Volume Change, %	-0 ~ +40	+25
EO14	<u>Fluid Resistance, ASTM #1 Oil, 70 h at 100°C, ASTM D471</u>		
	Hardness Change, pts	-5 ~ +10	+ 7
	Elongation Change, %	-45	-26
	Tensile Strength Change, %	-25	+ 9
	Volume Change, %	-10 ~ +5	- 8.6
EO34	<u>Fluid Resistance, ASTM #3 Oil, 70 h at 100°C, ASTM D471</u>		
	Hardness Change, pts	-10 ~ +5	- 4
	Elongation Change, %	-45	-10
	Tensile Strength Change, %	-45	- 8
	Volume Change, %	0 ~ +25	+ 7
F17	Low Temperature Brittleness, Nonbrittle after 3 min at -40°C	Nonbrittle	Pass

Please note that the above test results were obtained from test slabs and buttons, not actual parts.