

CHANG HORING RUBBER CO., LTD

TEST REPORT

MATERIAL: NB07860G

DATE: 2017/12/15

Press Cure

Post Cure

Sheet: 5 min 170 °C

Sheet: 1 hr 120 °C

Button: 10 min 170 °C

Button: 1 hr 140 °C

Spec. ASTM D2000 M2BG610A14B14EA14EF11EF21

Original Properties:

	Spec.	Result
Hardness Type A, ASTM D2240	60±5	58
Tensile strength, ASTM D412, Psi, Min	1450	2023
Elongation, ASTM D412, %, Min	300	660
Tear resistance, ASTM D624(Die C), Kg/cm		54
Modulus at 100%, ASTM D412, Psi		263
Modulus at 200%, ASTM D412, Psi		559
Modulus at 300%, ASTM D412, Psi		918
Specific Gravity		1.292

A14 Heat resistance, ASTM D573,	100 °C at	70 h	Spec.	Result
Hardness Change	Point	Max	±15	+2
Tensile Strength Change	%	Max	±30	-4
Elongation Change	%	Max	-50	-11
Volume Change	%			-0.8

Fluid resistance, ASTM D471, 95 Unleaded Gasoline,	23 °C at	70 h	Result
Hardness Change	Point	Max	-19
Tensile Strength Change	%	Max	-49
Elongation Change	%	Max	-39
Volume Change	%		+36.6

B14 Compression Set, ASTM D395, Method B,	100 °C at	22 h, %, Max	25	25
B Compression Set, ASTM D395, Method B,	°C at	h, %, Max		

EA14 Water resistance, ASTM D471,	100 °C at	70 h	Spec.	Result
Hardness Change	Point	Max	±10	+1
Tensile Strength Change	%	Max		+3
Elongation Change	%	Max		-13
Volume Change	%		±15	+14.5

EO Fluid Resistance, ASTM D471, IRM901 Oil,	100 °C at	70 h	Result
Hardness Change	Point	Max	+13
Tensile Strength Change	%	Max	+3
Elongation Change	%	Max	-23
Volume Change	%		-11.2

EO Fluid Resistance, ASTM D471, IRM903 Oil,	100 °C at	70 h	Result
Hardness Change	Point	Max	+4
Tensile Strength Change	%	Max	+2
Elongation Change	%	Max	-16
Volume Change	%		-3.8

EF11 Fluid resistance, ASTM D471, Reference Fuel A,	23 °C at	70 h	Spec.	Result
Hardness Change	Point	Max	±10	+1
Tensile Strength Change	%	Max	-25	-3
Elongation Change	%	Max	-25	0
Volume Change	%		-5~+10	0

EF21 Fluid resistance, ASTM D471, Reference Fuel B,	23 °C at	70 h	Spec.	Result
Hardness Change	Point	Max	-30~0	-18
Tensile Strength Change	%	Max	-60	-48
Elongation Change	%	Max	-60	-37
Volume Change	%		0~+40	+30.6

EF Fluid resistance, ASTM D471, Reference Fuel C,	23 °C at	70 h	Result
Hardness Change	Point	Max	-23
Tensile Strength Change	%	Max	-57
Elongation Change	%	Max	-47
Volume Change	%		+48.8