

**SO GIANT OIL SEAL INDUSTRIAL CO., LTD.**

**TEST REPORT**

MATERIAL : NB07471A

Press Cure Post Cure Date: 2016/07/20

Sheet: 5 min 170 °C Sheet: 1 hr 140 °C

Button: 10 min 170 °C Button: 1 hr 140 °C

Spec:ASTM D2000 M2BG714A14B14EA14EF11EF21EO14EO34

<u>Original Properties:</u>	Spec.	Result
Hardness Type A, ASTM D2240	70±5	72
Tensile strength, ASTM D412, Psi Min	2031	2566
Elongation, ASTM D412, %, Min	250	358
Tear resistance, ASTM D624(Die C), Kgf/cm		51
Modulus at 100 %, ASTM D412, Psi		719
Modulus at 200 %, ASTM D412, Psi		1716
Modulus at 300 %, ASTM D412, Psi		2373
Specific Gravity		1.249

<u>A14 Heat resistance, ASTM D573, 100 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	±15	+2
Tensile Strength Change %,Max	±30	+5
Elongation Change %,Max	-50	-16
Volume Change %		-1

A Heat resistance,ASTM D573, °C \*\* hrs

Hardness Change	Point Max
Tensile Strength Change	% Max
Elongation Change	% Max
Volume Change	%

B <u>14</u> Compression Set, ASTM D395, Method B, <u>100</u> °C at <u>22</u> h, %, Max	25	10
B ___ Compression Set, ASTM D395, Method B, ___ °C at ___ h, %, Max		
B ___ Compression Set, ASTM D395, Method B, ___ °C at ___ h, %, Max		

<u>EA 14 Water resistance,ASTM D471, 100 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	±10	-4
Tensile Strength Change %,Max		+2
Elongation Change %, Max		-10
Volume Change %	±15	+4.8

<u>EO14 Fluid Resistance, ASTM D471, IRM901 Oil, 100 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	-5~+10	+6
Tensile Strength Change %,Max	-25	+10
Elongation Change %,Max	-45	-16
Volume Change %	-10~+5	-6.6

<u>EO34 Fluid Resistance, ASTM D471, IRM903 Oil, 100 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	-10~+5	-2
Tensile Strength Change %,Max	-45	+1
Elongation Change %,Max	-45	-15
Volume Change %	0~+25	+3.6

<u>EF11 Fluid resistance, ASTM D471, Reference Fuel A, 23 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	±10	-2
Tensile Strength Change %,Max	-25	-7
Elongation Change %,Max	-25	-11
Volume Change %	-5~+10	-0.8

EF Fluid resistance : °C \* h

Hardness Change	Point
Tensile Strength Change	%,Max
Elongation Change	%,Max
Volume Change	%

<u>EF21 Fluid resistance, ASTM D471, Reference Fuel B, 23 °C at 70 h</u>	Spec.	Result
Hardness Change Point Max	-30~0	-18
Tensile Strength Change %,Max	-60	-27
Elongation Change %,Max	-60	-29
Volume Change %	0~+40	+22.3