



**SHANGRAO RUICHEN SEALING CO.,LTD**  
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**MATERIALS TEST REPORT**

**NBR50 BLACK (N5001) COMPOUND**

**ASTM D2000 M2BG 507 A14 B14 EO14 EO34 EA14 F17**

Press Cure		Post Cure	
Sheet : 5min 170°C		Sheet : 1 hrs 120°C	
Button : 10 min 170°C		Button : 1 hrs 120°C	
ORIGINAL PROPERTIES	SPECIFICATION	TEST RESULT	ASTM TEST METHOD
HARDNESS SHORE A	50°±5	55	D2240
TENSILE STRENGTH, MPA, MIN	≥7	10.37	D412
ULTIMATE ELONGATION, %, MIN	≥350	466.07	D412
SPECIFIC GRAVITY (g/cm <sup>3</sup> )		1.19	D297
HEAT RESISTANCE 70 H . AT 100°C ( A14 )			
CHANGE IN HARDNESS, POINTS	+/-15	+6	D573
CHANGE IN TENSILES STRENGTH, %	+/-30	16.49	
CHANGE IN ULTIMATE ELONGATION,MAX %	-50	-36.46	
COMPRESSION SET, MAX, 22H AT 100°C ( B14 )			
	≤25	18.89	D395
FLUID RESISTANCE NO.1 OIL, 70H AT 100°C (EO14)			
CHANGE IN HARDNESS, POINTS	-5~+10	+10	D471
CHANGE IN TENSILES STRENGTH, MAX %	-25	17.36	
CHANGE IN ULTIMATE ELONGATION,MAX %	-45	-21.51	
CHANGE IN VOLUME %	-10~+5	-7.04	
FLUID RESISTANCE NO.3 OIL, 70H AT 100°C (EO34)			
CHANGE IN HARDNESS, POINTS	-10~+5	+5	D471
CHANGE IN TENSILES STRENGTH, MAX %	-45	-7.91	
CHANGE IN ULTIMATE ELONGATION,MAX %	-45	-21.46	
CHANGE IN VOLUME %	0~+25	1.02	
WATER RESISTANCE:100°C,70H (EA14)			
CHANGE IN HARDNESS, POINTS	±10	+3	D471
CHANGE IN VOLUME %	±15	2.68	
LOW-TEMPERATURE BRITTLNESS NONBRITTLE			
AFTER 3MIN AT -40°C (F17)	NONBRITTLE	PASS	D2137

**Remark:**

1. The data are based on testing slabs I buttons and are for reference purpose only..
2. Our compound can meet above -mentioned ASTM 2000 Spec.
3. This information is, to the best of our knowledge, accurate reliable to the date indicated.
4. The above mentioned data have been obtained by tests we consider as reliable, We don't assure that - the same results can be obtained other laboratories, using different conditions by the preparation and -evaluation of the samples.

Approved By:		Audit By:	Yunli Tu	Test By:	Jianjun Zhu
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