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The Manufacturer of Sealing Parts

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TEST REPORT

MATERIAL: NBR 70 DURO BLACK COMPOUND NO. : N7001B

A) PHYSICAL PROPERTIES:

PRESS CURE @170 DEGREE C X 10 MIN
POST CURE @120 DEGREE C X 1 HR

	REQUIREMENTS	TEST RESULT
HARDNESS, SHORE A	70+/-5	71
TENSILE STRENGTH, MPa	14	16.5
ELONGATION, %	250	328
SPECIFIC GRAVITY		1.24
B)A14 HEAT RESISTANCE @100℃X70HRS		
HARDNESS CHANGE, POINTS	+/-15	+2
TENSILE STRENGTH CHANGE, %	+/-30	+9
ELONGATION CHANGE, %	-50	-8
C)B14 COMPRESSION SET		
CURING CONDITIONS		
PRESS CURE @170 DEGREE C X 12 MIN		
POST CURE @120 DEGREE C X 1 HR		
HEAT AGING @100℃X22HRS, %	25	15
D)E014 ASTM IRM 901 OIL IMMERSIONN @100℃X70HRS		
HARDNESS CHANGE, POINTS	-5~+10	+0
TENSILE STRENGTH CHANGE, %	-25	+6
ELONGATION CHANGE, %	-45	-7
VOLUME CHANGE, %	-10~+5	-1
E)E034 ASTM IRM 903 OIL IMMERSIONN @100℃X70HRS		
HARDNESS CHANGE, POINTS	-10 ~-+5	-6
TENSILE STRENGTH CHANGE, %	-45	-2
ELONGATION CHANGE, %	-45	-6
VOLUME CHANGE, %	0~+25	+9
F)EA14 WATER RESISTANCE, TESTS @100℃ X 70HRS		
HARDNESS CHANGE, POINTS	+/-10	-7
VOLUME CHANGE, %	+/-15	+14
G) EF11 FUEL A RESISTANCE		
TESTS @23DEGREE C X 70HRS		
HARDNESS CHANGE, POINTS	+/-10	-7
TENSILE STRENGTH CHANGE, %	-25	-11
ELONGATION CHANGE, %	-25	-12
VOLUME CHANGE, %	-5~+10	+8
H) EF21 FUEL B RESISTANCE		
TESTS @23DEGREE C X 70HRS		
HARDNESS CHANGE, POINTS	0~-30	-16
TENSILE STRENGTH CHANGE, %	-60	-32
ELONGATION CHANGE, %	-60	-33
VOLUME CHANGE, %	0~+40	+25
I)LOW TEMPERATURE TR 10		-27.8℃
J) LOW TEMPERATURE BRITTLENESS		
ASTM D2137 TEST AFTER 3MIN AT -35 DEGREE C		NONBRITTLE

NOTE: 1.THE ABOVE TESTS WAS TESTED WITH TEST PIECE AND FOR YOUR REFERENCE ONLY.
The COMPOUND NO N7001B CAN MEET ASTM D2000 M2BG714 A14 B14 EA14 E014 EO34 EF11
EF21 F16 .WORK TEMPERATURE RANGE:-30℃~100℃

QA Manager: Grace Chen QC.Dept:Dolly Zhou Test by:QC08