

TEST REPORT

MATERIAL: NSF NBR 70 DURO BLACK COMPOUND NO. : MN70-51B

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 硬度	70+/-5	70
TENSILE STRENGTH, MPa 拉力強度 min	10	13.4
ELONGATION, % 延伸率 min	250	318
200% MODULUS, MPa		6.7
SPECIFIC GRAVITY 比重		1.223

B) HEAT RESISTANCE @ 100°C X 70 HRS 老化試驗

HARDNESS CHANGE, POINTS 硬度變化	+/-15	+3
TENSILE STRENGTH CHANGE, % 拉力強度變化	+/-30	+5
ELONGATION CHANGE, % 延伸率變化	-50	-17

C) COMPRESSION SET 壓縮永久變形試驗

CURING CONDITIONS

PRESS CURE @ 170 DEGREE C X 12 MIN

POST CURE @ 120 DEGREE C X 1 HR

HEAT AGING @ 100°C X 22 HRS, % max	25	16
------------------------------------	----	----

D) ASTM NO.1 OIL IMMERSION @ 100°C X 70 HRS 耐 1#油試驗

HARDNESS CHANGE, POINTS 硬度變化	-5~+10	+7
TENSILE STRENGTH CHANGE, % 拉力強度變化	-25	+6
ELONGATION CHANGE, % 延伸率變化	-45	-21
VOLUME CHANGE, % 體積變化	-10~+5	-8

E) ASTM IRM 903 OIL IMMERSION @ 100°C X 70 HRS 耐 903#油試驗

HARDNESS CHANGE, POINTS 硬度變化	-10~+5	-7
TENSILE STRENGTH CHANGE, % 拉力強度變化	-45	-13
ELONGATION CHANGE, % 延伸率變化	-45	-16
VOLUME CHANGE, % 體積變化	0~+25	+14

I) LOW TEMPERATURE TR-10

-27.8°C

NOTE: 1. THE ABOVE TESTS WAS TESTED WITH TEST PIECE AND FOR YOUR REFERENCE ONLY.

THIS COMPOUND MN70-51B CAN MEET ASTM D2000 M2BG710 A14 B14 EO14 EO34 .

2. THIS COMPOUND MN70-51B CAN MEET NSF CERTIFICATION.

QA Manager: Grace Chen

QC Dept: Dolly Zhou

Test by: QC08

