

TEST REPORT

MATERIAL: FDA NBR 70 DURO BLACK COMPOUND NO. : N7011B

Test date:2021/08/25

A) PHYSICAL PROPERTIES:

PRESS CURE @170 DEGREE C X 10 MIN

POST CURE @150 DEGREE C X 1 HR

	REQUIREMENTS	TEST RESULT
HARDNESS, SHORE A 硬度	70+/-5	71
TENSILE STRENGTH, MPa 拉力強度 min	10	15.8
ELONGATION, % 延伸率 min	250	367
200% MODULUS, MPa		6.6
SPECIFIC GRAVITY 比重		1.21

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

HARDNESS CHANGE, POINTS 硬度變化	+/-15	+4
TENSILE STRENGTH CHANGE, % 拉力強度變化	+/-30	+6
ELONGATION CHANGE, % 延伸率變化	-50	-22

C) COMPRESSION SET 壓縮永久變形試驗

CURING CONDITIONS

PRESS CURE @170 DEGREE C X 10 MIN

POST CURE @150 DEGREE C X 1 HR

HEAT AGING @100°C X 22HRS, % max	25	10
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D) ASTM NO.1 OIL IMMERSION @100°C X 70HRS 耐 1#油試驗

HARDNESS CHANGE, POINTS 硬度變化	-5~+10	+0
TENSILE STRENGTH CHANGE, % 拉力強度變化	-25	-10
ELONGATION CHANGE, % 延伸率變化	-45	-12
VOLUME CHANGE, % 體積變化	-10~+5	-3

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

HARDNESS CHANGE, POINTS 硬度變化	-10~+5	-9
TENSILE STRENGTH CHANGE, % 拉力強度變化	-45	-11
ELONGATION CHANGE, % 延伸率變化	-45	-5
VOLUME CHANGE, % 體積變化	0~+25	+9

NOTE: THE ABOVE TESTS WAS TESTED WITH TEST PIECE AND FOR YOUR REFERENCE ONLY.  
THIS COMPOUND N7011B CAN MEET ASTM D2000 M2BG710 A14 B14 EO14 EO34  
(Z1=MEET US FDA 21 CFR177.2600).



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Test by: QC08