

TEST REPORT

MATERIAL :CR 40 DURO BLACK

COMPOUND NO:C4001B

A) PHYSICAL PROPERTIES

PRESS CURE @ 170DEGREE C X 10 MIN)

HARDNESS SHORE A

TENSILE STRENGTH, MPa,min

ELONGATION, % ,min

SPECIFIC GRAVITY

REQUIREMENT TEST RESULT

40+/-5

45

7.0

10.5

400

416

1.372

B)HEAT AGING @ 100 DEGREE C X 70 HRS

HARDNESS CHANGE , POINTS

+15

+6

TENSILE STRENGTH CHANGE , %

-15

-14

ELONGATION CHANGE , %

-40

-11

C)COMPRESSION SET

HEAT AGING @ 100 DEGREE C X 22 HRS % ,max

35

31

D)FLUID RESISTANCE,TEST METHOD NO.1.oil @ 100 DEGREE C X 70H

HARDNESS CHANGE , points

+/-10

+5

TENSILE STRENGTH CHANGE , %

-30

-7

ELONGATION CHANGE , %

-30

-23

VOLUME CHANGE, %

-10~+15

-4

E) FLUID RESISTANCE,TEST METHOD NO.3.oil @ 100 DEGREE C X 70H

TENSILE STRENGTH CHANGE , %

-70

-69

ELONGATION CHANGE , %

-55

-37

VOLUME CHANGE, %

+120

+70

F)LOW TEMPERATURE BRITTLENESS

TESTS AFTER 3MIN AT -40 DEGREE C

NONBRITTLE

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

THIS COMPOUND C4001B CAN MEET ASTM D2000 M2BC407 A14 B14 EO14 EO34 F17

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Test by:QC08