

TEST REPORT

MATERIAL :HNBR90 DURO BLACK low temperature COMPOUND NO:H9063B

A) PHYSICAL PROPERTIES

PRESS CURE @ 170DEGREE C X 10 MIN

POST CURE @ 130 DEGREE C X 3 HRS

| | REQUIREMENTS | TEST RESULT |
|-------------------------------|--------------|-------------|
| HARDNESS SHORE A 硬度 | 90+/-5 | 93 |
| TENSILE STRENGTH,MPa,min 拉力强度 | 10 | 17.4 |
| ELONGATION,%,min 延伸率 | 100 | 117 |
| SPECIFIC GRAVITY , 比重 | | 1.322 |

B)HEAT AGING @ 150 DEGREE C X 70 HRS 老化试验

| | | |
|------------------------------------|-----|-----|
| HARDNESS CHANGE , POINTS,硬度变化 | +10 | +0 |
| TENSILE STRENGTH CHANGE ,% 拉力强度变化率 | -15 | +3 |
| ELONGATOIN CHANGE ,% 延伸率变化率 | -25 | -13 |

C)COMPRESSION SET 压缩永久变形试验

| | | |
|---|----|----|
| HEAT AGING @ 150 DEGREE CX 22 HRS %,max | 35 | 17 |
|---|----|----|

D)FLUID RESISTANCE,TEST METHOD NO.1.oil @ 150 DEGREE C X 70H 耐 1#油试验

| | | |
|-------------------------------------|--------|----|
| HARDNESS CHANGE, POINTS 硬度变化 | -5~+10 | -1 |
| TENSILE STRENGTH CHANGE , % 拉力强度变化率 | -20 | -1 |
| ELONGATION CHAGNE, % 延伸率变化率 | -30 | -6 |
| VOLUME CHANGE, % 体积变化率 | -10~+5 | +0 |

E) FLUID RESISTANCE,TEST METHOD NO.3.oil @ 150 DEGREE C X 70H 耐 3#油试验

| | | |
|------------------------------------|-----|-----|
| HARDNESS CHANGE, POINTS 硬度变化 | -15 | -15 |
| TENSILE STRENGTH CHANGE, % 拉力强度变化率 | -40 | -10 |
| ELONGATION CHANGE , % 延伸率变化率 | -30 | +2 |
| VOLUME CHANGE, % 体积变化率 | +25 | +25 |

F) LOW TEMPERATURE BRITTLINESS 低温脆性试验

TESTS AFTER 3MIN AT -40 DEGREE C NONBRITTLE

NOTE .THE ABOVE TESTS WAS TESTED WITH TEST PIECE AND FOR YOUR REFERENCE ONLY.
THIS COMPOUND H9063B CAN MEET ASTM D2000 M4DH910 A26 B16 EO16 EO36 F17
TEMPERATURE RANGE:-40°C~150°C.



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Test by:QC08