



The Manufacturer of Sealing Parts

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## TEST REPORT

MATERIAL: SIL 50 DURO BLACK

COMPOUND NO: S5001B

| Physical Properties (Press Cure:170°CX10min Post Cure:200°CX4h) | Requirement | Test result |
|-----------------------------------------------------------------|-------------|-------------|
| Hardness, Point 硬度(邵A)                                          | 45.00~55.00 | 52.00       |
| Tensile Strength, min, Mpa 拉力強度                                 | 6.00        | 7.50        |
| Ultimate Elongation, min, % 延伸率                                 | 250.00      | 263.00      |
| Specific Gravity, 比重                                            |             | 1.14        |

### Heat Resistance 70h@225°C 老化試驗

|                                                |        |        |
|------------------------------------------------|--------|--------|
| Change in hardness, max, Point 硬度變化(邵A)        | +10.00 | +1.00  |
| Change in tensile strength, max, % 拉伸強度變化率     | -25.00 | -16.00 |
| Change in ultimate elongation, max, % 扯斷伸長率變化率 | -30.00 | -21.00 |

### Compression Set 22h@175°C 壓縮永久變形試驗

|                                          |       |       |
|------------------------------------------|-------|-------|
| Compression set, Method B, max, % 壓縮永久變形 | 25.00 | 11.00 |
|------------------------------------------|-------|-------|

### Fluid Resistance No.1 Oil Resistance 70h@150°C 1號油試驗

|                                              |             |       |
|----------------------------------------------|-------------|-------|
| Change in hardness, Point 硬度變化               | -15.00~0.00 | -8.00 |
| Change in tensile strength, max, % 拉力強度變化率   | -20.00      | +3.00 |
| Change in ultimate elongation, max, % 延伸率變化率 | -20.00      | -4.00 |
| Change in volume, % 體積變化率                    | 0.00~10.00  | +6.00 |

### Fluid Resistance No.3 Oil Resistance 70h@150°C 3號油試驗

|                                            |        |        |
|--------------------------------------------|--------|--------|
| Change in hardness, Point 硬度變化             | -30.00 | -19.00 |
| Change in tensile strength, max, % 拉力強度變化率 | +60.00 | +37.00 |

NOTE: THE ABOVE TESTS WAS TESTED WITH TEST PIECE AND FOR YOUR REFERENCE ONLY  
THIS COMPOUND S5001B CAN MEET ASTM 2000 M5GE506A19B37EO16EO36

