

# Data Sheet: N60

## MATERIAL: NITRILE 60 SHORE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -35°C to 110°C

SPECIFICATION: D2000 M2BG607B14EF11EF21EO14EO34Z1=A4

| PHYSICAL PROPERTIES   | REQUIREMENT    | TEST RESULT |
|-----------------------|----------------|-------------|
| HARDNESS SHORE A      | 60+/-5         | 60          |
| TENSILE STRENGTH, psi | TS $\geq$ 1015 | 2172        |
| ELONGATION %          | E $\geq$ 250   | 596         |

### HEAT AGEING 70 hrs @ 100°C

|                           |  |        |
|---------------------------|--|--------|
| HARDNESS CHANGE, POINTS   |  | +3     |
| TENSILE STRENGTH CHANGE % |  | +6.75  |
| ELONGATION CHANGE %       |  | -27.46 |

|                                  |              |       |
|----------------------------------|--------------|-------|
| COMPRESSION SET 22 hrs @ 100°C % | CS $\leq$ 25 | 17.47 |
|----------------------------------|--------------|-------|

### FLUID RESISTANCE, A Oil, 70 hrs @ 23°C

|                           |        |        |
|---------------------------|--------|--------|
| HARDNESS CHANGE, POINTS   | +/-10  | -2     |
| TENSILE STRENGTH CHANGE % | -25    | -2.03  |
| ELONGATION CHANGE %       | -25    | -17.17 |
| VOLUME CHANGE %           | -5/+10 | +1.60  |

### FLUID RESISTANCE, B OIL, 70 hrs @ 23°C

|                           |       |        |
|---------------------------|-------|--------|
| HARDNESS CHANGE, POINTS   | 0/-30 | -14    |
| TENSILE STRENGTH CHANGE % | -60   | -58.78 |
| ELONGATION CHANGE %       | -60   | -49.72 |
| VOLUME CHANGE %           | 0/+40 | +29.04 |

### FLUID RESISTANCE, No.1 Oil, 70 hrs @ 100°C

|                           |        |        |
|---------------------------|--------|--------|
| HARDNESS CHANGE, POINTS   | -5/+10 | +7     |
| TENSILE STRENGTH CHANGE % | -25    | +24.42 |
| ELONGATION CHANGE %       | -45    | -27.96 |
| VOLUME CHANGE %           | -10/+5 | -9.75  |

### FLUID RESISTANCE, No.3 OIL, 70 hrs @ 100°C

|                           |        |        |
|---------------------------|--------|--------|
| HARDNESS CHANGE, POINTS   | -10/+5 | 0      |
| TENSILE STRENGTH CHANGE % | -45    | +14.93 |
| ELONGATION CHANGE %       | -45    | -11.74 |
| VOLUME CHANGE %           | 0/+25  | +4.10  |

*The above test results are based on test slabs / buttons. The results from the actual parts may be different.*

Issue Date: 27.05.2011