



WILLIAM JOHNSTON & COMPANY LIMITED

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Black Nitrile to BS2751 BA40 WJ189

| PROPERTIES | TEST METHOD | VALUES |
|---|-------------------|--------------------|
| | | METRIC UNITS |
| DENSITY (Mg/m3) | BS 903: PART A1 | 1.10 ± 0.02 |
| HARDNESS | BS903: PART A26 | 40 (+ 5-4) IRHD |
| TENSILE STRENGTH (MIN) | BS 903: PART A2 | 7 Mpa |
| ELONGATION AT BREAK (MIN) | BS 903: PART A2 | 600% |
| COMPRESSION SET (70°C/24 HRS/25% SET) (MAX) | BS 903: PART A6 | 30% |
| TEAR RESISTANCE (ANGULAR) MIN | BS 903: PART A3 | 30 Kg/cm |
| RESISTANCE TO ACCELERATED AGEING- 168HRS AT 70°C | BS 903: PART A19 | |
| --- HARDNESS (Pts) | BS 903: PART A26 | + 10 (MAX) |
| --- TENSILE STRENGTH (%) | BS 903: PART A2 | -10 (MAX) |
| --- ELONGATION AT BREAK (%) | BS 903: PART A2 | -35 (MAX) |
| VOLUME SWELL: AT 40°C FOR 24 HRS/IN | BS 903: PART A16 | |
| FUEL B | | + 30 (MAX) |
| RESISTANCE TO LOW TEMPERATURE IN °C AT WHICH THE STIFNESS SHALL NOT EXCEED 70 MPA | BS 903: PART A13 | -30 |
| ADHESION TO AND CORROSION OF METALS AT 70°C / 168 HRS | BS 903: PART A 37 | MEETS REQUIREMENTS |
| POLYMER CONTENT (NITRILE) | | 100% |
| ADDITIONAL INFORMATION - | | |
| CHEMICAL RESISTANCE | | |
| --- OZONE | BS 903: PART A 43 | FAIR |
| --- DILUTE ACIDS AND BASES | BS 903: PART A16 | GOOD |
| --- CONCENTRATED ACIDS AND BASES | | NOT RECOMMENDED |
| --- MINERAL OIL/PETROLEUM | | EXCELLENT |
| --- SOLVENTS | | FAIR |
| TEMPERATURE RANGE | | -30° to +120°C |
| COLOUR | BLACK | |
| VOLUME SWELL: AT 70 C FOR 72 HRS/IN | VALUES | |
| IRM / ASTM OIL NO.1 | - 3 % | |
| IRM / ASTM OIL NO.2 | - 2% | |
| IRM / ASTM OIL NO.3 | + 10% | |

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