



# WILLIAM JOHNSTON & COMPANY LIMITED

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673  
[sales@williamjohnston.co.uk](mailto:sales@williamjohnston.co.uk) | [www.williamjohnston.co.uk](http://www.williamjohnston.co.uk)

## Black Neoprene to BS2752 C60 WJ181

| PROPERTIES  | TEST METHOD       | VALUES                |
|---|-------------------|-----------------------|
|   |                   | METRIC UNITS          |
| SPECIFIC GRAVITY                                    | BS 903: PART A1   | 1.40                  |
| HARDNESS  | BS 903: PART A26  | 60 ± 5 IRHD           |
| TENSILE STRENGTH (KG/CM2)                           | BS 903: PART A2   | 130                   |
| ELONGATION AT BREAK (MIN)                           | BS 903: PART A2   | 350%                  |
| COMPRESSION SET (70°C/24 HRS/25% SET)<br>(MAX)      | BS 903: PART A6   | 25%                   |
| TEAR RESISTANCE (ANGULAR) MIN                       | BS 903: PART A3   | 35 Kg/cm              |
| RESISTANCE TO ACCELERATED AGEING-<br>168HRS AT 70°C | BS 903: PART A19  |                       |
| --- HARDNESS (Pts)                                  | BS 903: PART A26  | + 7 (MAX)             |
| --- TENSILE STRENGTH (%)                            | BS 903: PART A2   | -12 (MAX)             |
| --- ELONGATION AT BREAK (%)                         | BS 903: PART A2   | -20 (MAX)             |
| VOLUME SWELL: AT 40°C FOR 24 HRS/IN                 | BS 903: PART A16  |                       |
| FUEL B  |                   | + 70% (MAX)           |
| RESISTANCE TO LOW TEMPERATURE AT -<br>40°C          | BS 903: PART A13  | MEETS<br>REQUIREMENTS |
| ADHESION TO AND CORROSION OF<br>METALS              | BS 903: PART A 37 | MEETS<br>REQUIREMENTS |
| POLYMER CONTENT (NEOPRENE)                          |                   | 100%                  |
| <b>ADDITIONAL INFORMATION -</b>                     |                   |                       |
| CHEMICAL RESISTANCE                                 |                   |                       |
| --- OZONE   | BS 903: PART A 43 | GOOD                  |
| --- DILUTE ACIDS AND BASES                          | BS 903: PART A16  | GOOD                  |
| --- CONCENTRATED ACIDS AND BASES                    |                   | NOT<br>RECOMMENDED    |
| --- MINERAL OILS - PARAFINIC &<br>NAPHTHANIC HC     |                   | GOOD                  |
| --- MINERAL OILS - AROMATIC HC                      |                   | FAIR                  |
| --ANIMAL/VEGETABLE OIL                              |                   | GOOD                  |
| --SOLVENTS  |                   | FAIR                  |
| TEMPERATURE RANGE                                   |                   | -30° TO + 120° C      |
| COLOUR  | BLACK             |                       |

| VOLUME SWELL DATA   |  |     |
|---|--|-----|
| RESISTANCE TO LIQUIDS                                       | BS ISO 1817, 24 $\frac{0}{-2}$ h at (40±1) °C  | -0  |
| VOLUME CHANGE (%) AFTER IMMERSION IN LIQUID B               | BS ISO 1817, 24 $\frac{0}{-2}$ h at (40±1) °C  | +70 |
| RESISTANCE TO ACCELERATED AGEING                            | PART A19, AIR-OVEN METHOD A, (168±2) h, (70±1) °C  | -0  |
| CHANGE IN HARDNESS DEGREES (IRHD)                           | PART A26, METHOD N, MEASUREMENTS BEFORE AND AFTER AGEING ON THE SAME 2 PLIES EACH 2.00MM THICK | +7  |
| MAXIMUM CHANGE IN TENSILE STRENGTH (% OF ORIGINAL VALUE)    | PART A2, TYPE 1 OR TYPE 2 DUMBBELLS  | -12 |
| MAXIMUM CHANGE IN ELONGATION AT BREAK (% OF ORIGINAL VALUE) | PART A2, TYPE 1 OR TYPE 2 DUMBBELLS  | -20 |

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