



# WILLIAM JOHNSTON & COMPANY LIMITED

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## Black Non-Reinforced Diaphragm 100% High Grade Neoprene 60° shore WJ208

| PROPERTIES  | TEST METHOD   | VALUES FPS UNITS | TEST METHOD        | VALUES METRIC UNITS |
|---|---------------|------------------|--------------------|---------------------|
| SPECIFIC GRAVITY                                    | DIN 53508     | 1.40±0.05        | ASTM D297          | 1.40±0.05           |
| HARDNESS  | DIN 53505     | 65 ± 5 SH A      | ASTM D2240         | 65 ± 5 SH A         |
| TENSILE STRENGTH (MIN)                              | DIN 53504     | 1422 PSI         | ASTM D412          | 100 KG/CM2          |
| ELONGATION AT BREAK (MIN)                           | DIN 53504     | 400 %            | ASTM D412          | 400 %               |
| COMPRESSION SET (70°C/24 HRS/25% COMPRESSION) (MAX) | DIN ISO 815-1 | 40%              | ASTM D395 METHOD B | 40%                 |
| TEAR RESISTANCE (ANGULAR) MIN                       | DIN 53515     | 95 LBS/INCH      | ASTM D624          | 25 KG/CM            |
| CHANGE IN PROPERTIES AFTER                          |               |                  |                    |                     |
| HEAT AGEING FOR (72 HRS. AT 70°C)                   |               |                  | ASTM D573          |                     |
| --- HARDNESS (PTS)                                  |               | + 5 (MAX)        |                    | + 5 (MAX)           |
| --- TENSILE STRENGTH (%)                            |               | + 10 / - 25      |                    | + 10 / - 25         |
| --- ELONGATION AT BREAK (%)                         |               | + 10 / - 30      |                    | + 10 / - 30         |
| VOLUME SWELL: AT 70° C FOR 72 HRS                   |               |                  | ASTM D 471         |                     |
| IN IRM OIL NO.1                                     |               | + 18%            |                    | + 18%               |
| IN IRM OIL NO.2                                     |               | + 23%            |                    | + 23%               |
| IN IRM OIL NO.3                                     |               | + 60%            |                    | + 60%               |
| POLYMER CONTENT (NEOPRENE)                          |               | 100%             |                    | 100%                |
| CHEMICAL RESISTANCE                                 |               |                  |                    |                     |
| --- OZONE   |               | GOOD             | ASTM D 1149        | GOOD                |
| --- DILUTE ACIDS AND BASES                          |               | FAIR             |                    | FAIR                |
| --- CONCENTRATED ACIDS AND BASES                    |               | FAIR             |                    | FAIR                |
| --- OILS  |               | GOOD             |                    | GOOD                |
| --- SOLVENTS  |               | FAIR             |                    | FAIR                |
| TEMPERATURE RANGE                                   |               | -30° TO + 130° C |                    | -30° TO + 130° C    |
| COLOUR  |               | BLACK            |                    |                     |

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