



## WILLIAM JOHNSTON & COMPANY LIMITED

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### Black Natural Rubber to BS EN 1337-3 Bridge Bearing WJ241

| PROPERTIES   | TEST METHOD | VALUES FPS UNITS     | TEST METHOD        | VALUES METRIC UNITS  |
|--|-------------|----------------------|--------------------|----------------------|
| SPECIFIC GRAVITY   | DIN 53508   | 1.25 ± 0.05          | ASTM D297          | 1.25 ± 0.05          |
| HARDNESS   | DIN 53505   | 60 ± 5 SH A          | ASTM D2240         | 60 ± 5 SH A          |
| TENSILE STRENGTH (MIN)   | DIN 53504   | 2275 PSI             | ASTM D412          | 155KG/CM2            |
| ELONGATION AT BREAK (MIN)                                      | DIN 53504   | 400%                 | ASTM D412          | 400%                 |
| COMPRESSION SET (70°C/24 HRS/25% COMPRESSION) (MAX)            | DIN 53517   | 30%                  | ASTM D395 METHOD B | 30%                  |
| TEAR RESISTANCE (ANGULAR) MIN                                  | DIN 53515   | 335 LBS/INCH         | ASTM D624          | 60 KG/CM             |
| ABRASION RESISTANCE (MM)                                       |             |                      |                    | 120                  |
| CHANGE IN PROPERTIES AFTER HEAT AGEING FOR (168 HRS. AT 70 °C) |             |                      | ASTM D573          |                      |
| --- HARDNESS (PTS)   |             | - 5 / + 10           |                    | - 5 / + 10           |
| --- TENSILE STRENGTH (%)                                       |             | ± 15                 |                    | ± 15                 |
| --- ELONGATION AT BREAK (%)                                    |             | ± 25                 |                    | ± 25                 |
| VOLUME SWELL: AT 70°C FOR 72 HRS                               |             |                      | ASTM D 471         |                      |
| IN IRM OIL NO.1  |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| IN IRM OIL NO.2  |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| IN IRM OIL NO.3  |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| CHEMICAL RESISTANCE  |             |                      |                    |                      |
| --- OZONE RESISTANCE ELONGATION 30% / 96 HRS / 40 °C ±2 °C     |             | NO CRACKS AT 25 PPHM | ASTM D 1149        | NO CRACKS AT 25 PPHM |
| --- DILUTE ACIDS AND BASES                                     |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| --- CONCENTRATED ACIDS AND BASES                               |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| --- OILS   |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| --- SOLVENTS   |             | NOT RECOMMENDED      |                    | NOT RECOMMENDED      |
| TEMPERATURE RANGE  |             | -20° TO + 70 °C      |                    | -20° TO + 70 °C      |
|  |             | BLACK                |                    |                      |

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