

## Material : Hydrogenated Nitrile Butadiene Rubber (HNBR)

### MAX SPARE Code : HN 85 For High Tensile Strength

| Physical properties   | Nominal     | Units              |
|---|-------------|--------------------|
| <b>Hardness</b><br>ASTM D 2240, 23°C                        | 85±5        | Shore A            |
| <b>Tensile strength</b><br>ASTM D 412, 23°C                 | > 220       | Kg/cm <sup>2</sup> |
| <b>Elongation at break</b><br>ASTM D 412, 23°C              | > 100       | %                  |
| <b>Compression set</b><br>ASTM D 395, 150°C, 22 h, 25 %     | < 30        | %                  |
| <b>Air Ageing</b><br>ASTM D 573, 150°C, 70 h                |             |                    |
| Hardness Change   | <(+10)      | Points             |
| Tensile Change  | <(-25)      | %                  |
| Elongation Change   | <(-50)      | %                  |
| <b>Fluid Resistance, IRM-901</b><br>ASTM D 471, 150°C, 70 h |             |                    |
| Hardness Change   | -5 to+10    | Points             |
| Tensile Change  | <(-20)      | %                  |
| Elongation Change   | <(-30)      | %                  |
| Volume Change   | -10 to +5   | %                  |
| <b>Fluid Resistance, IRM-903</b><br>ASTM D 471, 150°C, 70 h |             |                    |
| Hardness Change   | -15 to +5   | Points             |
| Tensile Change  | <(-40)      | %                  |
| Elongation Change   | <(-30)      | %                  |
| Volume Change   | 0 to +25    | %                  |
| <b>Specific Gravity</b><br>ASTM D 792, 23°C                 | 1.29 ± 0.02 | g/cc               |
| <b>Ash Content</b><br>800°C, 2 Hrs                          | < 10        | %                  |
| <b>Service Temperature</b>                                  | -30 to 150  | °C                 |

#### Disclaimer

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