



NBR 70

Nitrile-butadiene-rubber

Standard Colour: **Black**
Service temperature: -35°C to +110°C

ASTM D2000 M2BG715 B14 A14 E014 E034 Z Z1

| Physical properties | Unit | Testing method | Value |
|-------------------------|-------------------|----------------|---------|
| Hardness | Shore A | D2240 | 70 ± 5 |
| Tensile strength | MPa | D412 | 10 |
| Elongation | % | D412 | 250 |
| Specific Gravity | g/cm ³ | D297 | 1.23 |
| Modulus 100% Elongation | psi | D412 | 348 |
| Cure system (Z) | | | Sulphur |
| Compression set | | | |
| 22hrs at 100°C | % | D395 | 25 |

Changes to properties after ageing acc. To ASTM D471/573 in:

| Test parameter | Hardness points | Tensile strength % | Elongation % | Volume % |
|------------------|-----------------|--------------------|--------------|----------|
| Heat | | | | |
| 70hrs at 100°C | +6 | +4 | -11 | |
| Water | | | | |
| 70hrs at 100°C | -4 | +6 | | |
| ASTM IRM 901 Oil | | | | |
| 70hrs at 100°C | +4 | -8 | -7 | -8 |
| ASTM IRM 903 Oil | | | | |
| 70hrs at 100°C | -3 | -24 | -13 | +11 |

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, e.g. O-Rings, could lead to other results due to differences in geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to their use in order to ensure their suitability for the intended application is subject to the end user's responsibility.