

| T-NBR | | Nitrile butadiene rubber for low temperature applications | | | | |
|---|-----------|---|---------|--------|----------|--------|
| Mechanical, Physical and Thermal Properties | | standard | unit | unit | unit | |
| properties | condition | | | | | |
| colour | | | | black | | black |
| hardness | 23°C | ISO 868 | Shore A | 80 ± 5 | Shore A | 80 ± 5 |
| modulus 100% | 23°C | DIN 53 504 | MPa | ≥ 9 | psi | ≥ 1305 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥ 14 | psi | ≥ 2031 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 140 | % | ≥ 140 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 15 | lbf/inch | ≥ 85 |
| spec. gravity | 23°C | ISO 1183 | kg/m³ | 1270 | g/cm³ | 1,27 |
| rebound elasticity | 23°C | DIN 53 512 | % | 50 | % | 50 |
| abrasion | 23°C | DIN 53 516 | mm³ | | mm³ | |
| compression set | * | ISO 815 | % | ≤ 6 | % | ≤ 6 |
| compression set | ** | ISO 815 | % | ≤ 9 | % | ≤ 9 |
| compression set | *** | ISO 815 | % | | % | |
| minimum service temperature | | | °C | -50 | °F | -58 |
| maximum service temperature | | | °C | 110 | °F | 230 |
| temp. max water/steam | | | °C | | °F | |
| temp. max hot air | | | °C | | °F | |

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on butadiene and acrylonitrile

Resistant to: oil, petrol and crude oil

Not resistant to: conc. Acides, conc. lyes and polar solvents