

NBR 73

Mechanical, Physical and Thermal Properties

Nitrile butadiene rubber

| properties | condition | standard | unit | | unit | |
|-----------------------------|--------------|--------------|-------------------|--------|-------------------|--------|
| colour | | | | black | | black |
| hardness | 23°C/3 sec. | ISO 868 | Shore A | 75 ± 5 | Shore A | 75 ± 5 |
| hardness | 23°C/15 sec. | ISO 868 | Shore A | 71 ± 5 | Shore A | 71 ± 5 |
| modulus 100% | 23°C | DIN 53 504 | MPa | ≥ 7 | psi | ≥ 1015 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥ 16 | psi | ≥ 2320 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 225 | % | ≥ 225 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 5 | lbf/inch | ≥ 28 |
| spec. gravity | 23°C | ISO 1183 | kg/m ³ | 1230 | g/cm ³ | 1,23 |
| rebound elasticity | 23°C | DIN 53 512 | % | 28 | % | 28 |
| abrasion | 23°C | DIN 53 516 | mm ³ | 132 | mm ³ | 132 |
| compression set | * | ISO 815 | % | ≤ 5 | % | ≤ 5 |
| compression set | ** | ISO 815 | % | ≤ 8 | % | ≤ 8 |
| compression set | *** | ISO 815 | % | | % | |
| minimum service temperature | | | °C | -30 | °F | -22 |
| maximum service temperature | | | °C | 90 | °F | 194 |
| 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. acids, conc. lyes and polar solvents

Detailed information concerning chemical resistance see Chemical Resistance Guide

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