

H-NBR 85 Shore A green

Highly saturated Acryl Nitrile Butadiene Rubber

H-NBR has a good stability against highly additive oils and a very wide temperature range. Suited also for use in water. Can resist hot air for a short period. This material has improved abrasion resistance while retaining elasticity.

Mechanical, physical and thermal properties

Material code: 0300H

| Properties | Condition | Standard | Unit | Unit | | |
|-----------------------------|-------------|-----------------------------|-------------------|--------|-------------------|-------|
| Color | | | | green | | |
| Hardness | 23°C/3sec. | ISO 868 | Shore A | 85 ± 5 | | |
| | 23°C/15sec. | | | 81 ± 5 | | |
| Modulus 100% | 23°C | DIN 53 504 | MPa | ≥10 | psi | ≥1450 |
| Tensile strength | 23°C | DIN 53 504 | MPa | ≥20 | psi | ≥2900 |
| Elongation at break | 23°C | DIN 53 504 | % | ≥190 | | |
| Tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥15 | lbf/inch | ≥85 |
| Specific gravity | 23°C | ISO 1183 | kg/m ³ | 1320 | g/cm ³ | 1,32 |
| Rebound Elasticity | | DIN53 512 | % | 29 | | |
| Abrasion | 23°C | DIN 53 516 | mm ³ | 135 | | |
| Compression set | * | ISO 815 | % | ≤12 | | |
| Compression set | ** | ISO 815 | % | ≤14 | | |
| Compression set | *** | ISO 815 | % | ≤22 | | |
| Minimum service temperature | | | °C | -20 | °F | -4 |
| Maximum service temperature | | | °C | 150 | °F | 302 |
| Maximum temp. water/steam | | | °C | 120 | °F | 248 |
| Maximum temp. hot air/short | | | °C | 180 | °F | 356 |
| *24h 70°C 25% deflection | | ** 24h 100°C 25% deflection | | | | |

Resistant to: water and steam up to 150°C, ozone and weathering, petrol, hot air up to 180°C

Not resistant to: aromatic hydrocarbons, chlorinated hydrocarbons, polar solvents, conc. Acids, glycol-based brake fluid