

DMH 310 H-NBR

Mechanical, Physical and Thermal Properties

Highly saturated nitrile butadiene rubber

| PROPERTIES | CONDITION | STANDARD | UNIT | | UNIT | |
|-----------------------------|--------------|--------------|-------------------|--------|-------------------|--------|
| Colour | | | | green | | green |
| hardness | 23°C/3 sek. | ISO 868 | Shore A | 85 ± 5 | Shore A | 85 ± 5 |
| hardness | 23°C/15 sek. | ISO 868 | Shore A | 81 ± 5 | Shore A | 81 ± 5 |
| modulus 100% | 23°C | DIN 53 504 | MPa | ≥ 10 | psi | ≥ 1450 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥ 17 | psi | ≥ 2465 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 165 | % | ≥ 165 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 15 | lbf/inch | ≥ 85 |
| spec. gravity | 23°C | ISO 1183 | kg/m ³ | 1320 | g/cm ³ | 1,32 |
| rebound elasticity | 23°C | DIN 53 512 | % | 29 | % | 29 |
| abrasion | 23°C | DIN 53 516 | mm ³ | 135 | mm ³ | 135 |
| compression set | * | ISO 815 | % | ≤ 12 | % | ≤ 12 |
| compression set | ** | ISO 815 | % | ≤ 14 | % | ≤ 14 |
| compression set | *** | ISO 815 | % | ≤ 22 | % | ≤ 22 |
| minimum service temperature | | | °C | -20 | °F | -4 |
| maximum service temperature | | | °C | 150 | °F | 302 |
| temp. max water/steam | | | °C | 120 | °F | 248 |
| temp. max hot air | | | °C | 180 | °F | 356 |

* 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, crude oil

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

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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