

DMH 151 LT-PU+

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane with resistance to hydrolysis

| PROPERTIES | CONDITION | STANDARD | UNIT | | UNIT | |
|-----------------------------|--------------|--------------|-------------------|--------|-------------------|--------|
| Colour | | | | blue | | blue |
| hardness | 23°C | ISO 868 | Shore A | 94 ± 2 | Shore A | 94 ± 2 |
| hardness | 23°C/3 sek. | ISO 868 | Shore D | 49 ± 3 | Shore D | 49 ± 3 |
| hardness | 23°C/15 sek. | ISO 868 | Shore D | 48 ± 3 | Shore D | 48 ± 3 |
| modulus 100% | 23°C | DIN 53 504 | MPa | ≥ 11 | psi | ≥ 1595 |
| modulus 300 % | 23°C | DIN 53 504 | MPa | ≥ 22 | psi | ≥ 3190 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥ 45 | psi | ≥ 6525 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 400 | % | ≥ 400 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 80 | lbf/inch | ≥ 450 |
| spec. gravity | 23°C | ISO 1183 | kg/m ³ | 1110 | g/cm ³ | 1,11 |
| abrasion | | DIN 53 516 | mm ³ | 20 | mm ³ | 20 |
| compression set | * | ISO 815 | % | ≤ 30 | % | ≤ 30 |
| compression set | ** | ISO 815 | % | ≤ 35 | % | ≤ 35 |
| minimum service temperature | | | °C | -55 | °F | -67 |
| maximum service temperature | | | °C | 110 | °F | 230 |

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to oil, water, ozone, microbes

Not resistant to conc. acids, conc. lyes, conc. alcohols and aromatic solvents

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Detailed information concerning chemical resistance see DMH Chemical Resistance Guide

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