

# 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               | ≥ 12   | psi               | ≥ 1740 |
| 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 <sup>3</sup> | 1110   | g/cm <sup>3</sup> | 1,11   |
| abrasion                    |              | DIN 53 516   | mm <sup>3</sup>   | 20     | mm <sup>3</sup>   | 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

**DMH Dichtungs- und  
Maschinenhandel GmbH**

 Industriepark West 11  
 8772 Traboch  
 Austria  
[dmh.at](http://dmh.at)

 p. +43 (0)3833/200 60-0  
 f. +43 (0)3833/200 60-500  
 e. [office@dmh.at](mailto:office@dmh.at)
