

DMH 180 PU 93

Mechanical, Physical and Thermal Properties

thermoplastic polyurethane

| PROPERTIES | CONDITION | STANDARD | UNIT | | UNIT | |
|-----------------------------|--------------|--------------|-------------------|--------|-------------------|--------|
| Colour | | | | green | | green |
| hardness | 23°C | ISO 868 | Shore A | 93 ± 2 | Shore A | 93 ± 2 |
| hardness | 23°C/3 sek. | ISO 868 | Shore D | 47 ± 3 | Shore D | 47 ± 3 |
| hardness | 23°C/15 sek. | ISO 868 | Shore D | 45 ± 3 | Shore D | 45 ± 3 |
| modulus 100% | | DIN 53 504 | MPa | ≥ 13 | psi | ≥ 1880 |
| modulus 300 % | 23°C | DIN 53 504 | MPa | ≥ 23 | psi | ≥ 3330 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥ 50 | psi | ≥ 7250 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 450 | % | ≥ 450 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 100 | lbf/inch | ≥ 570 |
| spec. gravity | 23°C | ISO 1183 | kg/m ³ | 1200 | g/cm ³ | 1,2 |
| abrasion | | DIN 53 516 | mm ³ | 35 | mm ³ | 35 |
| compression set | * | ISO 815 | % | ≤ 25 | % | ≤ 25 |
| compression set | ** | ISO 815 | % | ≤ 33 | % | ≤ 33 |
| minimum service temperature | | | °C | -30 | °F | -22 |
| 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

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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