



## HPU Härte 95 Shore A rot

HPU hardness 95 shore A red

**Hydrolysebeständiges Polyurethan**

Thermoplastic polyurethane with resistance to hydrolysis

### Mechanische, physikalische und thermische Eigenschaften

Mechanical, physical and thermal properties

| Eigenschaften<br>properties  | Bedingung<br>condition | Norm<br>standard | Einheit<br>unit   |            |                   |            |
|--|------------------------|------------------|-------------------|------------|-------------------|------------|
| Farbe<br>colour  |                        |                  |                   | rot<br>red |                   | rot<br>red |
| Härte<br>hardness  | 23°C                   | ISO 868          | shore A           | 95 ± 2     | shore A           | 95 ± 2     |
| Härte<br>hardness  | 23°C                   | ISO 868          | shore D           | 48 ± 3     | shore D           | 48 ± 3     |
| Spannungswert/Modul 100 %<br>modulus 100 %                                     | 23°C                   | DIN 53 504       | MPa               | ≥ 15       | psi               | ≥ 2175     |
| Spannungswert/Modul 300 %<br>modulus 300 %                                     | 23°C                   | DIN 53 504       | MPa               | ≥ 28       | psi               | ≥ 4160     |
| Reißfestigkeit<br>tensile strength   | 23°C                   | DIN 53 504       | MPa               | ≥ 50       | psi               | ≥ 7250     |
| Reißdehnung<br>elongation at break   | 23°C                   | DIN 53 504       | %                 | ≥ 350      | %                 | ≥ 350      |
| Weiterreißwiderstand<br>tear strength  | 23°C                   | DIN 53 515       | kN/m              | ≥ 100      | lbf/inch          | ≥ 560      |
| Spezifisches Gewicht<br>spec. gravity  | 23°C                   | ISO 1183         | kg/m <sup>3</sup> | 1200       | g/cm <sup>3</sup> | 1,2        |
| Abrieb<br>abrasion   | 23°C                   | DIN 53 516       | mm <sup>3</sup>   | 20         | mm <sup>3</sup>   | 20         |
| Druckverformungsrest DVR<br>compression set                                    | *                      | ISO 815          | %                 | ≤ 27       | %                 | ≤ 27       |
| Druckverformungsrest DVR<br>compression set                                    | **                     | ISO 815          | %                 | ≤ 33       | %                 | ≤ 33       |
| Min. Einsatztemperatur<br>minimum service temperature                          |                        |                  | °C                | -20        | °F                | -4         |
| Max. Einsatztemperatur<br>maximum service temperature                          |                        |                  | °C                | 115        | °F                | 240        |
| * 24h 70°C 25% Verformung/deflection    ** 24h 100°C 25% Verformung/deflection |                        |                  |                   |            |                   |            |

### Chemical Properties

**Copolymer, based on aromatic isocyanate and diols**

**Resistant to:** oil, petrol, hot water, hot air, ozone, synthetic and native esters

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

*Detailed information concerning chemical resistance see RDA Chemical Resistance Guide*

**Foodstuff approval:** German Regulations on Commodities (Bedarfsgegenständeverordnung)  
The Council Directive 2002/72/EC (European Community)  
APPROVED FOR DRINKING WATER  
FDA