

## HPU Hardness 95° Shore A Red

Thermoplastic polyurethane with resistance to hydrolysis

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### Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Red		Red
Hardness	23°C	ISO 868	Shore A	95±2	Shore A	95±2
Hardness	23°C	ISO 868	Shore D	48±3	Shore D	48±3
Modulus 100%	23°C	DIN 53 504	MPa	≥15	Psi	≥2175
Modulus 300%	23°C	DIN 53 504	MPa	≥28	Psi	≥4160
Tensile strength	23°C	DIN 53 504	MPa	≥50	Psi	≥7250
Elongation at break	23°C	DIN 53 504	%	≥350	%	≥350
Tear strength	23°C	DIN 53 515	kN/m	≥100	Ibf/inch	≥560
Spec. gravity	23°C	ISO 1183	Kg/m <sup>3</sup>	1200	g/cm <sup>3</sup>	1,2
Abrasion	23°C	DIN 53 516	mm <sup>3</sup>	20	mm <sup>3</sup>	20
Compression set	*	ISO 815	%	≤27	%	≤27
Compression set	**	ISO 815	%	≤33	%	≤33
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	115	°F	240
* 24 h 70°C 25% deflection		** 24h 100°C 25% 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 Rhondama Compatibility Chart*

**Foodstuff approval:** German Regulations on Commodities

The Council Directive 2002/72/EC (European Community)  
**APPROVED FOR DRINKING WATER**  
 FDA