

# RHONDAMA LIMITED C-HPU55D

## C-HPU Hardness 55° Shore D Yellow

Thermoplastic polyurethane with resistance to hydrolysis

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### Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Yellow		Yellow
Hardness	23°C	ISO 868	Shore D	55±3	Shore D	55±3
Modulus 100%	23°C	DIN 53 504	MPa	≥20	Psi	≥2900
Modulus 300%	23°C	DIN 53 504	MPa	≥33	Psi	≥4785
Tensile strength	23°C	DIN 53 504	MPa	≥55	Psi	≥7970
Elongation at break	23°C	DIN 53 504	%	≥450	%	≥450
Tear strength	23°C	DIN 53 515	kN/m	≥110	Ibf/inch	≥630
Spec. gravity	23°C	ISO 1183	Kg/m <sup>3</sup>	1160	g/cm <sup>3</sup>	1,16
Abrasion	23°C	DIN 53 516	mm <sup>3</sup>	25	mm <sup>3</sup>	25
Compression set	*	ISO 815	%	≤30	%	≤30
Compression set	**	ISO 815	%	≤35	%	≤35
Minimum service temperature			°C	-30	°F	-22
Maximum service temperature			°C	110	°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, microbes

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

*Detailed information concerning chemical resistance see Rhondama Compatibility Chart*

Foodstuff approval in accordance with FDA CFR 177.2600