

RHONDAMA LIMITED C-HPU

C-HPU Hardness 96° Shore A Red

Casted thermoplastic polyurethane with resistance to hydrolysis (TPU)

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Red***		Red***
Hardness	23°C	ISO 868	Shore A	96±2	Shore A	96±2
Hardness	23°C	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	≥50	Psi	≥7250
Elongation at break	23°C	DIN 53 504	%	≥450	%	≥450
Tear strength	23°C	DIN 53 515	kN/m	≥80	Ibf/inch	≥450
Spec. gravity	23°C	ISO 1183	Kg/m ³	1130	g/cm ³	1,13
Abrasion	23°C	DIN 53 516	mm ³	15	mm ³	15
Compression set	*	ISO 815	%	≤30	%	≤30
Compression set	**	ISO 815	%	≤35	%	≤35
Minimum service temperature			°C	-37	°F	-35
Maximum service temperature			°C	110	°F	230
Maximum water steam			°C	90	°F	195
* 24 h 70°C 25% deflection ** 24h 100°C 25% deflection *** other colours on request						

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to: oil, petrol, hot water, hot air, ozone

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

Detailed information concerning chemical resistance see Rhondama Compatibility Chart

Foodstuff applications in accordance with FDA CFR 21-177.2600