

LT-PU Hardness 96° Shore A Blue

Thermoplastic polyurethane for low-temperature applications

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Blue		Blue
Hardness	23°C	ISO 868	Shore A	96±2	Shore A	96±2
Hardness	23°C	ISO 868	Shore D	47±3	Shore D	47±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	%	≥550	%	≥550
Tear strength	23°C	DIN 53 515	kN/m	≥80	Ibf/inch	≥450
Spec. gravity	23°C	ISO 1183	Kg/m ³	1170	g/cm ³	1,17
Abrasion	23°C	DIN 53 516	mm ³	15	mm ³	15
Compression set	*	ISO 815	%	≤27	%	≤27
Compression set	**	ISO 815	%	≤33	%	≤33
Minimum service temperature			°C	-50	°F	-58
Maximum service temperature			°C	110	°F	230
* 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 air, ozone

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

Detailed information concerning chemical resistance see Rhondama Compatibility Chart