

LT-PU+ thermoplastic polyurethane with resistance to hydrolysis
Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				blue		blue
hardness	23°C	ISO 868	Shore A	96 ± 2	Shore A	96 ± 2
hardness	23°C	ISO 868	Shore D	50 ± 3	Shore D	50 ± 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	≥ 45	psi	≥ 6525
elongation at break	23°C	DIN 53 504	%	≥ 450	%	≥ 450
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 80	lbf/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	20	mm ³	20
compression set	*	ISO 815	%	≤ 25	%	≤ 25
compression set	**	ISO 815	%	≤ 30	%	≤ 30
minimum service temperature			°C	-55	°F	-67
maximum service temperature			°C	110	°F	230

* 24h 70°C 25% def.

** 24h 100°C 25% def.

Chemical Properties

Copolymer, based on aromatic isocyanate and diols

Resistant to oil, water, ozone, microbes

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

Foodstuff approval: -