

SL-PU 96 Shore A dark grey

Thermoplastic polyurethane resistant against hydrolysis

The SL-PU material is a polyurethane filled with solid lubricants. Mainly used for dry running applications in pneumatics.

Mechanical, physical and thermal properties

Material code: 01S21

Properties	Condition	Standard	Unit	Unit		
Color				dark grey		
Hardness	23°C	ISO 868	Shore A	96 ±2		
Hardness	23°C/3 sec.	ISO 868	Shore D	48 ± 3		
	23°C/15 sec.			45 ± 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	%	≥350		
Tear strength	23°C	DIN ISO 34-1 Method B	kN/m	≥80	lbf/inch	≥450
Specific gravity	23°C	ISO 1183	kg/m ³	1190	g/cm ³	1,19
Abrasion	23°C	DIN 53 516	mm ³	15		
Compression set	*	ISO 815	%	≤30		
Compression set	**	ISO 815	%	≤35		
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	110	°F	230
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Chemical Properties:

Copolymer, based on aromatic isocyanate, diols and internal lubricants

Resistant to: oil, hot water, ozone

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