

PU93 Shore A green

Thermoplastic polyurethane resistant against hydrolysis

This material has very similar mechanical properties as H-PU red. The temperature of +60°C should not be exceeded when used with hydraulic fluids, oil in water emulsion and native liquids.

Mechanical, physical and thermal properties

Material code: 01053

Properties	Condition	Standard	Unit	Unit		
Color				green		
Hardness	23°C	ISO 868	Shore A	93 ±2		
Hardness	23°C/3 sec.	ISO 868	Shore D	47 ± 3		
	23°C/15 sec.			45 ± 3		
Modulus 100%	23°C	DIN 53 504	MPa	≥13	psi	≥1880
Modulus 300%	23°C	DIN 53 504	MPa	≥23	psi	≥3330
Tensile strength	23°C	DIN 53 504	MPa	≥50	psi	≥7250
Elongation at break	23°C	DIN 53 504	%	≥500		
Tear strength	23°C	DIN ISO 34-1 Method B	kN/m	≥100	lbf/inch	≥570
Specific gravity	23°C	ISO 1183	kg/m ³	1200	g/cm ³	1,2
Abrasion	23°C	DIN 53 516	mm ³	35		
Compression set	*	ISO 815	%	≤25		
Compression set	**	ISO 815	%	≤33		
Minimum service temperature			°C	-30	°F	-22
Maximum service temperature			°C	110	°F	230
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Chemical Properties:

Copolymer, based on aromatic isocyanate and diols

Resistant to: oil, ozone, microbes

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