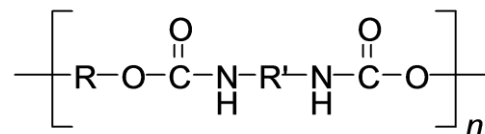


Highly Resistant Thermoplastic Polyurethane (HPU Soft)



SPECIFICATIONS

Property	Spec	Value
Hardness Shore A	ISO 868	90 ± 2
Modulus 100%	DIN 53 504	11 MPa
Modulus 300%	DIN 53 504	28 MPa
Tensile Strength	DIN 53 504	50 MPa
Elongation at Break	DIN 53 504	380 %
Tear Strength	DIN ISO 34-1	-
Specific Gravity	ISO 1183	1200 kg/m ³
Abrasion	DIN 53 516	-
Compression Set 24h, 70°C, 25% deflection	ISO 815	27%
Compression Set 24h, 100°C, 25% deflection	ISO 815	-
Min. Service Temperature		-20°C
Max. Service Temperature		110°C
Color		Yellow

DESCRIPTION

MP321 is a HPU material with hardness 90 Shore A. The polyurethane polymer industry has enormous categories of products for a wide variety of applications. Polyurethane used in the seal industry is a thermoplastic elastomer (HPU). As the name suggests, it behaves like an elastomer but the chemistry is of a thermoplastic. The elasticity of a HPU is brought about through polymer morphology phase changes as in thermoplastics not through vulcanization as seen in other elastomers. Because of its thermoplastic nature, HPU has excellent tensile strength and abrasion resistance that other elastomers are unable to match. Meanwhile, HPUs also have good flexibility and shock absorbing performance. An additional advantage of HPUs is that they can be molded using conventional thermoplastic processes.