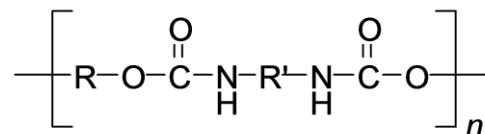


Highly Resistant Thermoplastic Polyurethane (HPU-FDA approved)

SPECIFICATIONS

Property	Spec	Value
Hardness Shore A	ISO 868	95
Hardness Shore D	ISO 868	48
Tensile Strength	DIN 53 504	50 MPa
Tear Strength	DIN ISO 34-1	110 kN/m
Spec. Gravity	ISO 1183	1200 kh/m ³
Abrasion		17 mm ³
Modulus 100%	DIN 53 504	15 MPa
Modulus 300%	DIN 53 504	28 MPa
Elongation at Break	DIN 53 504	350%
Compression Set 24h, 70°C, 25% deflection	ISO 815	27%
Compression Set 24h, 100°C, 25% deflection	ISO 815	33%
Min. Service Temperature		-20°C
Max. Service Temperature		115°C
Color		Blue



DESCRIPTION

MP320 is a HPU material with hardness 95 Shore A and 48 Shore D. MP320 is a universally applicable sealing material which can be characterized by its wide service temperature. 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. This hydrolysis resistant PU can be used where other PU's get broken already much earlier. The machinability by turning, milling, and grinding is excellent. FDA approved.