



Thermoplastic Polyurethane (TPU)

SPECIFICATIONS

Property	Spec	Value
Hardness	DIN 53505	72D
Density	DIN 53479	1.18 g/cm ³
Tensile Strength	DIN 53504	50 N/mm ²
Tensile Strength after 42 days in water @ 80C	DIN 53504	35%
Ultimate Elongation	DIN 53504	340%
Ultimate Elongation after 42 days in water @ 80C	DIN 53504	320%
20% Modulus	DIN 53504	23 N/mm ²
100% Modulus	DIN 53504	26 N/mm ²
300% Modulus	DIN 53504	38 N/mm ²
Tear Strength	DIN 53515	240 N/mm ²
Abrasion	DIN 53516	40mm ³
Brittle Point	DIN 53513	-30°C
Color		Black

DESCRIPTION

MM26 is a TPU material with hardness 72D, specially compounded for standard grade applications. 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 (TPU). As the name suggests, it behaves like an elastomer but the chemistry is of a thermoplastic. The elasticity of a TPU is brought about through polymer morphology phase changes as in thermoplastics not through vulcanization as seen in other elastomers. Because of its thermoplastic nature, TPU has excellent tensile strength and abrasion resistance that other elastomers are unable to match. Meanwhile, TPUs also have good flexibility and shock absorbing performance. An additional advantage of TPUs is that they can be molded using conventional thermoplastic processes.