

# TPU

## Thermoplastic polyurethane

TPU offers a unique combination of softness and flexibility, making it the perfect choice for applications requiring a flexible and durable material.



### Material properties

Density	ASTM D792	1,10	g/cm <sup>3</sup>
Hygroscopicity	ISO 62	0,89	%
Suitability for food contact	CE 1935/2004 – 10/2011	NO	
Tensile strength	ASTM D638	10	MPa
Elongation at break	ASTM D638	291	%
Elastic modulus	ASTM D638	800	MPa
Resilience	ISO 179	No break	kJ/m <sup>2</sup>
Hardness	ASTM D2240	88-90 A	Shore
HDT 0.45 MPa	ASTM D648	NA	°C
HDT 1.8 MPa	ASTM D648	NA	°C
Vicat softening temperature	ISO 306	84	°C
Melting temperature	ASTM D3418	120-150	°C
Flammability	UL94	HB	
Volumic electrical resistivity	UL746A / ASTM D257	10 <sup>^</sup> 11	Ω*m

#### Printing layer height

0,08 mm (0,003 in)

#### Maximum dimensions

380x284x380 mm (15x11.2x15 in)

#### Tolerances

± 0,50mm < 100mm / ± 0,5% >  
100mm

#### Applications

An excellent choice for any application requiring the combination of softness, flexibility and durability. It finds its greatest use in automotive, aerospace and medical applications due to its versatility and reliability.

#### Certifications

USP class VI - UL94 - UL746A - RoHS -  
Declaration of composition for applications on toys

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