

TPU

TDS - Technical Data Sheet

Material specification

Commercial name: Thermoplastic polyurethane

Raw material: polymer alloy (94% TPU)

Designation: 3d printing material

Supplier: Jdeal-Form srl

Mechanical properties

Туре	Test Method	Metric		
Tensile Modulus	ASTM D638	12Mpa		
Yeld Point	ASTM D638	4Mpa		
Tensile Elongation at Yeld	ASTM D638	65%		
Tensile Strenght Ultimate	ASTM D638	12Mpa		
Tensile Elongation at Break	ASTM D638	670%		

Thermal properties (GRANULE - printed part tests value available ASAP)

Туре	Test Method	Metric		
VICAT Softening	ISO 306B50	ТВА		
Glass Transition (TG)		-35°C		
Degradation Temperature		235°C		

Physical characteristics

Туре	Metric		
Density	1,19gr/cm3		
Diameter	2,85mm +/- 0,05		
Roundness Deviation	Max 3%		
Hardness	91 Shore A		

Colors available

	Black	Natural	Red	Green	Blue	Yellow	
Shrink**							

The information supplied as informative: user should use it as material selection tool and/or comparison with available materials.

Printed part performance may differ from published value, depending on part orientation, printing parameters, environmental conditions.

User must validate suitability of the printed part and its lawful to be used as desired: no warranty can be made (express or implied) to any use of 3ntr materials.

We reserve the right to improve our polymer formulations and/or revise our technical data.

^{*}test parts have been printed according to XZ orientation, using 100% infill, 0.2mm layer thickness, 0.4mm nozzle on a production A2v2 printer.

^{**150}x150x15 test part, 25% infill, 0.2mm layers