



3D Printing Filament

TECHNICAL DATA SHEET - PRO TPU

Commercial name: PRO TPU
Raw material: Thermoplastic Polyurethane (TPU)
Designation: 3D printing applications
Manufacturer: MatterHackers

Material Specifications

PROPERTY	VALUE	TEST METHOD - ISO
Tensile Modulus	1130 PSI	DIN 53504
Yield Strength	8010 PSI	DIN 53505
Tensile Elongation	508%	DIN 53506
Shore Hardness	90A	DIN 53505

Filament Specifications

PROPERTY	VALUE
Diameter 1.75mm	1.75 ± 0.05 mm
Diameter 2.85mm	2.85 ± 0.05 mm
Suggested print temperature	220°C-240°C
Suggested bed temperature	Room Temp to 40°C
Suggested print speed	15-30 mm/s

Compliance

RHoS

REACH

TPU is an highly malleable elastomer which be used to create prints with high toughness while retaining superb flexibility. TPU also has a high resistance to abrasion. For the best results a direct drive extruder system is recommended, however use of Bowden style extruders is still possible. TPU will adhere to most bed types without any adhesives and a cooling fan is highly recommended.