

TOUGH PLA

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ColorFabb TOUGH PLA is a high quality PLA 3D printing filament, which is heavily impact modified to create a high degree of toughness. TOUGH PLA is available on small and large spools in a limited amount of colors.

TYPICAL MATERIAL PROPERTIES

Physical properties	Unit	Value	Method
Density	g/cm ³	1,23	ISO 1183
Modulus of elasticity	MPa	1614	ISO 527
Tensile strength	MPa	26	ISO 527
Elongation at break	%	75	ISO 527
Melting temperature	°C	>155	ISO 3146-C

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,05	≥ 95%
2,85 mm	± 0,05	≥ 95%

Netto filament weight 750 grams / 2200 grams

GUIDELINE FOR PRINT SETTINGS

Advised 3D printing temperature	210 – 220 °C
Advised bed temperature	50 – 60 °C
Bed surface / modification	Our Tough PLA performs well on both heated and non-heated build platforms.
Active cooling fan	Use the least amount of cooling for best layer-to-layer adhesion. For better overhang performance use 50-100% cooling.
Advised 3D printing speed	40 – 50 mm/sec

Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.