3D

PLA Filament High Performance

- High performance Polyactic Acid (PLA) for fused fabrication filament (FFF) material extrusion
- Biopolymer derived from plants
- Good post-printing workability
- Odourless
- Low flammability risk
- Moderate temperature (~58°C) and weather resistance
- Main applications: Concept modelling for food packaging, transport containers, medical/hygienic products, housings, education.

Product Specifications   Test Method

Diameter accuracy	± 0.03 mm	
Extrusion temperature	200 ˚C - 220 ˚C	
Bed temperature (recommended)	80 ˚C	
Material net weight	1 kg	
Filament length	2.85 mm - 119 m 1.75 mm - 334 m	
Melt Flow Rate (190 °C, 21.2N) **Melt Flow Rate** (210 °C, 21.2N)	3.0 g/10min 8.1 g/10min	ISO1133
Density	1.24 g/cm^3	ISO1183
Glass transition temperature	58 ˚C	DSC
Melt temperature	168 ˚C	DSC
Tensile strength	63 MPa	ISO527
Tensile elongation	4%	ISO527

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Colour	Part Number		PANTONE® ref.*	Diameter	Weight
Black	55267	■	Black Process	1.75 mm	1 kg
White	55268	□	White Process	1.75 mm	1 kg
Blue	55269	■	PMS 072	1.75 mm	1 kg
Red	55270	■	PMS 485	1.75 mm	1 kg
Green	55271	■	PMS 363	1.75 mm	1 kg
Yellow	55273	■	PMS 123	1.75 mm	1 kg
Transparent	55274	□	Clear	1.75 mm	1 kg
Silver/Metal Grey	55275	■	PMS 877	1.75 mm	1 kg
Black	55276	■	White Process	2.85 mm	1 kg
White	55277	□	Black Process	2.85 mm	1 kg
Blue	55278	■	PMS 072	2.85 mm	1 kg
Red	55279	■	PMS 485	2.85 mm	1 kg
Transparent	55282	□	Clear	2.85 mm	1 kg
Silver/Metal Grey	55283	■	PMS 877	2.85 mm	1 kg

* Closest PANTONE® colour reference

Verbatim filament is manufactured from high quality materials to extremely rigid standards. The filaments are manufactured from the highest quality materials and produced to extremely tight tolerances to ensure consistent feed and stable printing. The filaments are distributed in vacuum-sealed bags with desiccant, and wound onto a custom spool that has been designed for strength, uniform dynamic performance and trouble-free dispensing.

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