PLA Filament

- High performance Polylactic Acid (PLA) for material extrusion (ME)
- Biopolymer derived from plants
- Good post-printing workability
- Odourless
- Main applications: Concept modelling for food packaging, transport containers, medical/hygienic products, housings. Education.



Filament Specifications

Size	Ø tolerance	Length
1.75mm	± 0.03mm	335 m
2.85mm	± 0.05mm	126 m

Material properties

Description	Test method	Typical value
Density	ISO 1183	1.24 g/cm
Melt flow rate (210°C, 21.2N)	ISO 1133	8.1 g/10min
Melt temperature	DSC	168°C
Glass transition temperature	DSC	58°C
Tensile strength	ISO 527	63 Mpa
Tensile elongation	ISO 527	4 %

Recommended printer set up

Extrusion temperature	210±10°C
Bed temperature	60°C
Printing speed	30 mm/s

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Filaments Available

Colour	Part Number		RAL code	PANTONE® ref.*	Diameter	Weight
Black	55318		9017	Black Process	1.75 mm	1 kg
White	55315		9003	White Process	1.75 mm	1 kg
Blue	55322		5002	PMS 2747C	1.75 mm	1 kg
Red	55320		3020	TBC	1.75 mm	1 kg
Green	55324		6018	TBC	1.75 mm	1 kg
Natural Transparent	55317		-	N/A	1.75 mm	1 kg
Silver/Metal Grey	55319		9006	TBC	1.75 mm	1 kg
Black	55327		9017	Black Process	2.85 mm	1 kg
White	55328		9003	White Process	2.85 mm	1 kg
Blue	55332		5002	PMS 2747C	2.85 mm	1 kg
Red	55330		3020	TBC	2.85 mm	1 kg
Green	55334		6018	TBC	2.85 mm	1 kg
Natural Transparent	55326		-	N/A	2.85 mm	1 kg
Silver/Metal Grey	55329		9006	TBC	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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