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

Part Number	Colour		RAL code	Diameter	Weight
55318	Black		9017	1.75 mm	1 kg
55315	White		9003	1.75 mm	1 kg
55322	Blue		5002	1.75 mm	1 kg
55320	Red		3020	1.75 mm	1 kg
55324	Green		6018	1.75 mm	1 kg
55317	Natural Transparent		-	1.75 mm	1 kg
55319	Silver/Metal Grey		9006	1.75 mm	1 kg
55327	Black		9017	2.85 mm	1 kg
55328	White		9003	2.85 mm	1 kg
55332	Blue		5002	2.85 mm	1 kg
55330	Red		3020	2.85 mm	1 kg
55334	Green		6018	2.85 mm	1 kg
55326	Natural Transparent		-	2.85 mm	1 kg
55329	Silver/Metal Grey		9006	2.85 mm	1 kg

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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