

Product card: PLA filament for 3D printing.

Product description: Filament PLA - thermoplastic polyester in the form of fiber, used for 3D printing using the FFF method. Filament wound on a spool, vacuum packed with a moisture absorber. The spool contains 1 kg of net material. It can be used in all FFF printers that are not protected from external suppliers and open source structures before using. PLA is a biodegradable material, produced from renewable natural resources. It is dedicated primarily to amateurs due to trouble-free use.

Physical properties of the product:

Diameter of filament	1.75 mm / 2.85 mm
Dimensional tolerance of filament	+/- 0.05 mm
Roundness of filament	+/- 0.02 mm
Surface of the material	Gloss
Shrinkage of the material	Very low
Product weight	1.0 kg net, 1.36 kg gross
Spool - material	Transparent polycarbonate
Weight of the empty spool	~250 g
The diameter of the spool	200 mm
Width of spool	~70 mm
Diameter of mounting hole	52 mm
Packaging	Printed cardboard
Package size	~205x205x80 mm
Vacuum packing	Yes
Moisture absorber	Yes



Suggested printing parameters:

Hotend	200-235°C
Heated bed	50-60°C
Cooling the printout	Recommended

Due to the structural differences of printers, the above figures should be considered as guidelines and the corresponding values must be determined experimentally.

Physical properties of the material:

Density	1.24 g/cm ³	ASTM D1505
Elongation at Break	160%	ASTM D882
Spencer Impact	2.5 joules	-
Softening temperature	~50°C	-

Availability of colors and diameters:

Color	Kolor	1.75	2.85
Natural	Naturalny	✓	
White	Biały	✓	✓
Vanilla	Waniliowy	✓	
Bright Yellow	Jasnożółty	✓	✓
Yellow	Żółty	✓	
Bright Orange	Jasnopomarańczowy	✓	
Orange	Pomarańczowy	✓	
Bright Pink	Jasnoróżowy	✓	
Pink	Różowy	✓	
Lilac	Wrzosowy	✓	
Hot Red	Czerwień	✓	
Red	Czerwony	✓	✓
Raspberry Red	Malinowy	✓	
PC Gray	Jasnoszary	✓	
Gray	Szary	✓	
Blue	Błękitny	✓	
Super Blue	Niebieski	✓	✓
Navy Blue	Granatowy	✓	
Galaxy Violet	Galaktyczny Fioletowy	✓	
Violet	Fioletowy	✓	
Mint	Seledynowy	✓	
Bright Green	Jasnozielony	✓	✓
Green	Zielony	✓	
Gold	Złoty	✓	
Aluminum	Aluminiowy	✓	
Copper	Miedziany	✓	
Beige	Beżowy	✓	
Brown	Brązowy	✓	
Galaxy Black	Galaktyczny Czarny	✓	
Black	Czarny	✓	✓