Devil Design Sp. J.
Zwirki i Wigury 65
43-190 Mikolow
Poland

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 policarbonate
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.

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Physical properties of the material:

Density	1.24 g/cm3	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	✓	✓