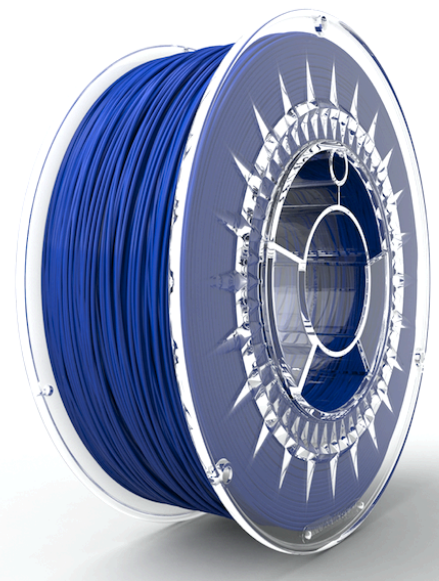


Product card: PLA filament for 3D printing.

**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.*

Availability of colors and diameters:

Color	RAL	1,75 - 1kg	2,85 - 1kg	Color	RAL	1,75 - 1kg	1,75 - 0,33kg
Natural		✓		Green Metallic		✓	✓
White	9003	✓	✓	Violet Metallic		✓	✓
Bright Yellow	1018	✓		Full Metallic	7024	✓	✓
Super Yellow		✓		Galaxy Red		✓	
Yellow	1012	✓		Galaxy Super Blue		✓	
Bright Orange	2007	✓		Galaxy Violet		✓	
Dark Orange		✓		Galaxy Green	6005	✓	
Bright Pink	4010	✓		Galaxy Black	9017	✓	
Pink Pearl	4003	✓		Marble Light	7047	✓	
Hot Red	3033	✓		Marble Dark	7048	✓	
Red	3031	✓		Glow In The Dark Blue	7036	✓	✓
Super Red	3024	✓					
Dark Red	3002	✓					
PC Gray	9002	✓					
Light Gray		✓					
Gray	7042	✓					
Dark Gray	7043	✓					
Blue	5012	✓					
Super Blue	5002	✓					
Ocean Blue	5025	✓					
Navy Blue	5003	✓					
Dark Violet	4004	✓					
Mint	6027	✓					
Light Green	6024	✓					
Bright Green	6018	✓					
Emerald Green	5018	✓					
Olive Green	6003	✓					
Race Green	6005	✓					
Silver	7046	✓					
Gold	1024	✓					
Aluminum	9022	✓					
Graphite	7024	✓					
Copper	8002	✓					
Beige	1014	✓					
Light Brown	3012	✓					
Dark brown		✓					
Black	8022	✓	✓				

## Physical properties of the material:

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