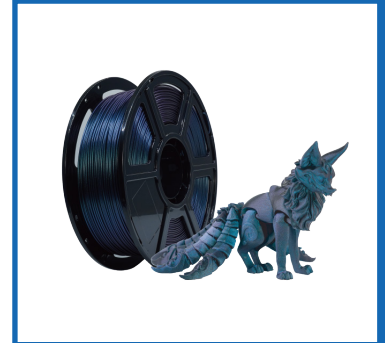


## 3D Printing Filament PLA Multicolour 1.75mm



### DESCRIPTION

PLA Multicolour Filament is a high-performance 3D printing filament engineered for speed, precision, and reliability. It provides dynamic colour changing effects, shifting between vibrant colours under different lighting and angles of view. PLA Multicolour offers superior fluidity, flow and thermal stability, enabling smooth extrusion and consistent layer formation even at high speeds. PLA Multicolour offers enhanced performance and rigidity with high speed 3D printing. The vibrant colour options with dynamic colour effects make it ideal for creating visually striking models.

### DISTINCTIVE FEATURES

- Dynamic colour changing effects
- High speed printing
- High Precision
- No bubbles
- Low warping
- High tenacity
- High tensile strength
- Medium impact strength
- High bending strength
- Improved heat resistance

### APPLICATIONS

Designed for both individual creators and commercial users, it is ideal for artistic projects and custom designs, and equally good for printing simple models or tackling complex geometries. PLA Multicolour is ideal for educational tools, artistic projects, and rapid prototyping. This filament supports a wide range of uses across areas including education, design and development, engineering and various other industries where high speed printing and custom designs are required.

PLA

1.75mm

1kg



## GENERAL SPECIFICATION

Series	3D Printing Filament
Type	PLA Multicolour
Spool Size	1kg
RoHS	
Reach	
FDA Approved	



## MATERIALS

Material	PLA
Finish	Smooth
Colour	See Part Number Table

Main Filament Property Parameters	
Filament Type	PLA Multicolour
Water Absorbtion (%) Equalibrium in water, 23°C)	<0.3
Tensile Strength (MPa)	45-49
Flexural Strength (MPa)	70-80
Modulus of Elasticity (MPa)	2000-2100
Impact Strength ((kg/m <sup>2</sup> )	4.5-5
Elongation at Break (%)	10-20
Heat Deflection Temperature (°C) (HDT@0.455MPa (66psi))	53
Melt Flow Rate	10-20g/10min
Density	1.25-1.26g/cm <sup>2</sup>



## ENVIRONMENTAL/OPERATING SPECIFICATION

Printing Parameters	
Printing with enclosure recommended	-
Nozzle Operating Temperature °C	190-240
Bed Operating Temperature °C	25-60
Nozzle Diameter	Ø0.4/0.6mm (Ø0.4mm recommended)
Cooling Fan	50-100%
Retraction Speed	30-50mm/s
Retraction Length	1-2mm
Printing Speed	60-350mm/s (higher speeds require higher temperatures)
Support Materials	Self supporting, PVA, BVOH
Printing & Storage Environment, Humidity	Room temperature up to 40°C, ≤ 20% RH (sealed with desiccant)
Printable on build plate sticker	Yes
Printable on glass plate	Yes
Printable on PEI sheet	Yes
Soluble with common solvents	No
Dry Box Recommended	No
Hardened Nozzle Required	No
Pre-print processing (Drying conditions before printing)	Drying 50°C, 5 hours (using convection oven)
Post-print processing	-



## PART NUMBER TABLE

Part Number	Colour	Filament Diameter (mm <sup>2</sup> )	EAN	UNSPSC	Country of Origin
<b>25-0361</b>	Burnt Titanium	1.75	5053556032761	23261601	China

For further information on pricing, delivery, and long-term stock agreements please get in touch with your local business development contact, telephone our main office on **01206 838000** or email **Sales@Rapidonline.com**.

