3D Printer Filament

multicomp PRO

RoHS Compliant



Description

The product is modified based on PLA material, easy to print , in addition ,it improves the toughness and layer adherence. PLA+ is an environmentally friendly material, which is easy to print and has smooth surface. Good strength, rigidity, toughness balance, strong impact resistance, very suitable for functional parts printing; Approved by FDA, safer to use; Can be used for conceptual model, rapid prototyping.

Applications

Prototyping COSPLAY

Decoration

Other mechanical parts

Features

- Good toughness
- Strong impact resistance
- High speed printing
- Smooth printed surface
- · Easy to print
- Hard to break
- Filament form
- Processing method 3D Print, FDM Print

	Testing Method	Typical Value		
Physical Properties				
Density	GB/T 1033	1.23 g/cm ³		
Melt Flow Index	GB/T 3682	5 (190°C/2.16kg)		
Mechanical Properties				
Tensile Strength	GB/T 1040	63 MPa		
Elongation at Break	GB/T 1040	20%		
Flexural Strength	GB/T 9341	74 MPa		
Flexural Modulus	GB/T 9341	1973 MPa		
IZOD Impact Strength	GB/T 1843	9 kJ/m²		
Thermal Properties				
Heat distortion Temperature	GB/T 1634	53°C		
Continuous Service Temperature	IEC 60216	N/A		
Maximum (short term) Use Temperature		N/A		
Electrical Properties				
Insulation Resistance	DIN IEC 60167	N/A		
Surface Resistance	DIN IEC 60093	N/A		

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro



3D Printer Filament

multicomp PRO

Recommended printing parameters

Extruder Temperature	: 210°C to 230°C	
Build Platform Temperature	: 45°C to 60°C	
Fan Speed	: 100%	
Printing Speed	: 40mm/s to 100mm/s	

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2. Printing conditions may vary with different nozzle diameters

Drying Recommendations

N/A

Mechanical Properties



Tensile testing specimen GB/T 1040 Flexural testing specimen G B/T 9341



Impact testing specimen GB/T 1043

The physical properties, mechanical properties, thermal properties, and electrical properties of the line are obtained based on the injection molding spline test.

Print test condition

Extruder Temperature	: 190°C to 230°C
Build Platform Temperature	: 45°C
Outline/Perimeter Shells	: 4
Top/Bottom Layers	: 4
Infill Percentage	: 20%
Fan speed	: 100%
Printing speed	: 40mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2.

Part Number Table

Description	Color	Part Number
	White	MP014129
3D Printer Filament, CMYK, 1.75mm, 1Kg	Cyan	MP014130
	Yellow	MP014131
	Magenta	MP014132

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for white any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

