Technical datasheet

PLA Vertigo

colorFabb

Date of issue: January 24 , 2023
Version: v1.0

Get ready to add some cosmic flair to your 3D printing projects with colorFabb's Vertigo filaments! Vertigo filaments have a deep, rich color with a dash of glitter that gives them a unique look. Perfect for creating unique jewelry, figurines and ornaments. PLA vertigo is easy to print with. The Vertigo effect is perfect for hiding the layering of the 3D print and produces a smooth-looking finish.

TYPICAL MATERIAL PROPERTIES – 3D Printed			
Physical properties	**Unit**	**Value**	**Method**
Tensile modulus	MPa	3285,79	ISO 527
Yield strength	MPa	70,91	ISO 527
Yield strain	%	2,52	ISO 527
Tensile strength	MPa	70,72	ISO 527
Tensile strain at tensile strength	%	2,53	ISO 527
Tensile stress at break	MPa	65,36	ISO 527
Tensile strain at break	%	3,49	ISO 527
Flexural modulus	MPa	2381,63	ISO 178
Flexural strain at standard deflection	MPa	80,13	ISO 178
Flexural strength	MPa	96,65	ISO 178
Flexural strain at flexural strength	%	5,23	ISO 178
Flexural stress at break	MPa	N/A	ISO 178
Flexural strain at break	%	N/A	ISO 178
Charpy unnotched impact strength	kJ/m2	23,25	ISO 179-1/1 eU
Charpy notched impact strength	kJ/m2	3,97	ISO 179-1/1 eU
Heat Deflection Temperature (HDT)	ºC	59,03	ISO 75

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TYPICAL MATERIAL PROPERTIES – Injection molded

Physical properties	Unit	Value	Method
Density	g/cm3	1,2 – 1,3	ISO 1183
Glass transition temperature	ºC	55 – 60	DSC
Tensile modulus	MPa	3400	ISO 527
Tensile strength	MPa	45	ISO 527
Tensile strain at break	%	6	ISO 527
Flexural modulus	MPa	-	ISO 178
Charpy unnotched impact strength	kJ/m2	-	ISO 179-1/1 eU
Charpy notched impact strength	kJ/m2	7	ISO 179-1/1 eU

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0.05mm	≥ 95%
2,85 mm	± 0.05mm	≥ 95%

Netto filament weight 750g

GUIDELINE FOR PRINT SETTINGS

Nozzle temperature	195 – 220 ºC
Bed temperature	50 – 60 ºC
Bed surface / modification	Tape or glue
Active cooling fan	100 %
Print speed	40 – 80 mm/s

Notes

The reported properties are an average of a batch of 3D printed specimens. The specimens have been printed in XY plane, using 0.15mm layerheight, 100% infill, 0.4mm nozzle, 210 °C nozzle temperature and 55 °C bed temperature.

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