

IDENTIFICATION OF THE MATERIAL

Trade name	PLA MATT
Chemical name	Polylactic Acid
Chemical family	Thermoplastic Polylactic Acid
Use	3D printing
Brand	3dcolors

GUIDELINE FOR PRINT SETTINGS - Settings are based on a 0.4 mm nozzle

Nozzle temperature	215 ± 10 °C
Bed temperature	0 - 60 °C
Bed modifications	Tape
Active cooling fan	Yes (up to 100%)
Layer height	0.08 - 0.2 mm
Layer thickness	0.4 - 0.8 mm
Print speed	50 - 100 mm/s

THERMAL PROPERTIES
Test Method

Melting temperature	-	-
Printing temperature	215 ± 10 °C	/
Vicat softening temp.	-	-

FILAMENT SPECIFICATIONS AND TOLERANCE

Diameter 1.75	1.75 ± 0.05 mm
Roundness	95%
Net weight on reel	750 g ± 2%

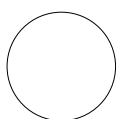
Think it, make it

PHISICAL PROPERTIES	Typical value	Test Method
Specific gravity	1,38 g/cc	ISO 1183
MFR 210°C (2.16kg)	41 gr/10min	ISO 1133
Tensile strength at yield	46,6 Mpa	ISO 527
Strain at yield	2,1%	ISO 527
E - modulus	3973 MPa	ISO 527
Impact strength <small>*Charpy notched 23°C</small>	-	ISO 179

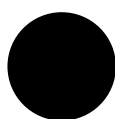
PLA MATT FEATURES:

- Matt effect, low light refraction
- Easy to print rough surface
- Reliable bed adhesion
- Improved printing speed compared to PLA
- Great strength & aesthetics

LIST OF COLOURS:



White
RAL 9003



Black
RAL 9017



Army Grey
RAL 7003

Think it, make it!