

PREMIUM PLA

Material	PLA polylactide
Color	Every color from the Pantone pallet
Properties	Eco-friendly, easy to use, odorless
Diameter	1.75mm / 2.85mm
Diameter tolerance	+/- 0.03mm
Tolerance roundness	98%
Printing temperature	190–220 °C
Heatbed temperature	0–60 °C
Net weight	0.5kg / 1 kg / 3kg / 9kg
Gross weight	0.85kg / 1.4kg / 3.95kg / 10.4kg
Spool dimensions	200x52x43mm / 200x52x80mm / 200x52x100mm / 355x35x165mm
Packaging	Vacuum packaging, carton box, moisture absorber



Properties of the PLA material

PHYSICAL PROPERTIES	UNIT	ASTM METHOD
SPECIFIC GRAVITY, G/CC	1.24	D792
MFR, G/10 MIN	6	D1238
RELATIVE VISCOSITY	4.0	D5225
GLASS TRANSITION TEMPERATURE, °C	55-60	D3418
MECHANICAL PROPERTY		
TENSILE YIELD STRENGTH, PSI (MPA)	8700 (60)	D882
TENSILE STRENGTH AT BREAK, PSI (MPA)	7700 (53)	D882
TENSILE MODULUS, PSI (MPA)	524,000 (3.6)	D882
TENSILE ELONGATION, %	6	D882
NOTCHED IZOD IMPACT, FT-LB/IN (J/M)	0.3 (16)	D256
FLEXURAL STRENGTH, PSI (MPA)	12,000 (83)	D790
FLEXURAL MODULUS, PSI (MPA)	555,000 (3.8)	D790
HEAT DISTORTION TEMPERATURE, °C 66 PSI (0.45 PA)	55	E2092