




TECHNICAL DATA SHEET

PLA

Biodegradable filament, bio based produced with >80% from raw material made with renewable resources. Suitable for all 3D printers and very easy to print.

 Compostable
  Environmental friendly
  Suitable for all printers

PROPERTIES	VALUE	UNIT	TEST METHOD
PHISICAL PROPERTIES			
Chemical name	Polylactic Acid		
Density	1.24	g/cm ³	ISO 1183
Melting Point (DSC)	60	°C	DSC
MECANICAL PROPERTIES			
Tensile Strength at break	30	MPa	ISO 527
Tensile Strength at yield	-	MPa	ISO 527
Elongation to break	8	%	ISO 527
Tensile Modulus	2400	MPa	ISO 527
Flexural Modulus	-	Mpa	ISO 178
Maxium Flexural Stress	-	Mpa	ISO 178
IZOD impact strength notched			
a 23°C	3	kJ/m ²	ISO 180/1A
a -30°C	-	kJ/m ²	ISO 180/1A
CHARPY Impact strength notched			
a 23°C	-	kJ/m ²	ISO 179/1eA
a -30°C	-	kJ/m ²	ISO 179/1eA
CHARPY Impact strength unnotched			
a 23°C	-	kJ/m ²	ISO 179/1eA
a -30°C	-	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
VICAT softening point A120	-	°C	ISO 306
VICAT softening point B50	-	°C	ISO 75
H.D.T. Method A (1,82MPa)	50	°C	ISO 75
PRINTING PROPERTIES			
Print temperature	180-210	°C	
Hot pad	40-60	°C	
Fan layer	100	%	

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