PLA Filament

SKU: FL100PLA

Xtellar Essential PLA is versatile, affordable, and easy to print, making it a great choice for users of all skill levels. Xtellar Essential PLA was designed to stand up to industrial strength applications, while still delivering the same quality, consistency, and ease of printability you expect from PLA. If you are beginner or a seasoned pro Xtellar Essential PLA is the perfect choice for your next project.

Recommended Print Settings

Parameter	Units	Range
Extruder Temperature	°C	200 - 230
*Recommended Bed Temperature	°C	30 – 60
*Alternate Bed Temperature / Substrate	°C / Type	60 / Multi-purpose adhesive spray
Printing Speed (First Layer)	mm/s	30 - 70 (60% speed)
Fan Speed	%	50 - 100
Extrusion Multiplier	–	1.00 – 1.10
Overlap Percentage	%	20 – 40
Brim	Layers	0 – 20

Printed Part Properties

Parameter	Method	Units	Value
Density	D 792	g/cm^3	1.24
Maximum Tensile Strength	D 638	MPa	41
Tensile Strength at Yield [a]	D 638	MPa	37
Tensile Elongation at Yield [a]	D 638	%	1.8
Tensile Modulus [a]	D 638	MPa	3200
Notched Impact	D 256	J/m	26

Notes

1. Recommended process conditions and printed part properties may be changed at any moment without previous communication from Xtellar.
2. Printed part properties obtained using test specimens printed in X-Y direction under the following conditions: printing temperature 230°C, bed temperature 20°C (90°C first layer) , print speed 20 mm/s, 100% of lines infill, 0 perimeter layers, 0.15 mm layer height, 0.4 mm brass nozzle.
3. Traditional bed adhesive solutions used for PLA & ABS (such as blue tape or hair spray) will not properly adhere PP, PE, or EVA to the build plate.
4. This resin does not contain the substance Bisphenol A (BPA, CAS: 80-05-7) in its composition.
5. For information on about safety, handling, individual protection, first aids and waste disposal, please see SDS.In case of questions regarding utilization or regulatory information, please contact our technical assistance area.