

PLA-Lite

Technical Data Sheet

Through the modification of PLA, it not only maintains the characteristics of PLA easy to print, but also improves the printing performance and physical strength on the basis of the original, high precision and good toughness, there will be no irritating odor when printing, safety and environmental protection, the line is not easy to break, the printing molding effect is good, cost-effective choice, 3D printing "ration material".

Material Status	Mass Production
Characteristics	• A cost-effective choice • Smooth surface of printed parts • Excellent printability • The Filament are not easily brittle and broken
Applications	• COSPLAY
Form	• Filament
Processing method	• 3D Print, FDM Print

	testing method	Typical value	
Physical Properties			
Density	GB/T 1033	1.23	g/cm³
Melt Flow Index	GB/T 3682	5.7	(190°C/2.16kg)
Mechanical Properties			
Tensile Strength	GB/T 1040	53	MPa
Elongation at Break	GB/T 1040	29.92	%
Flexural Strength	GB/T 9341	100	MPa
Flexural Modulus	GB/T 9341	3824	MPa
IZOD Impact Strength	GB/T 1843	6.3	kJ/m²
Thermal Properties			
Heat distortion Temperature	GB/T 1634	53	°C (0.45Mpa)
Continuous Service Temperature	IEC 60216	N/A	
Maximum (short term) Use Temperature		N/A	
Electrical Properties			
Insulation Resistance	DIN IEC 60167	N/A	
Surface Resistance	DIN IEC 60093	N/A	

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Recommended printing parameters

Extruder Temperature	190 - 230°C
Build Platform Temperature	45-60°C
Fan Speed	100%
Printing Speed	40 - 100mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2. Printing conditions may vary with different nozzle diameters

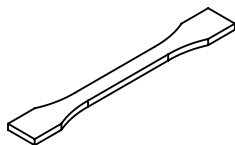
Drying Recommendations

N/A

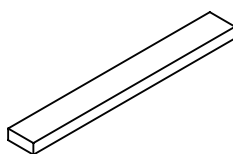
Precautions:

When slicing, it is best to turn on the Z seam alignment and starting point alignment functions, turn off the Z-axis lift and exit, avoid passing through the shell when idling, optimize the slicing printing path, and appropriately reduce the printing speed to achieve the best printing effect.

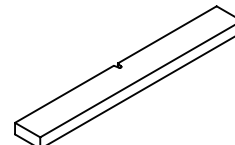
Mechanical Properties



Tensile testing specimen GB/T 1040



Flexural testing specimen GB/T 9341



Impact testing specimen GB/T 1043

The physical properties, mechanical properties, thermal properties, and electrical properties of the filament are obtained based on the injection molding spline test.

Print test condition:

Extruder Temperature	190-230°C
Build Platform Temperature	45°C
Outline/Perimeter Shells	4
Top/Bottom Layers	4
Infill Percentage	20%
Fan speed	100%
Printing speed	40mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2.

Notice

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