

Technical Data Sheet (TDS)

PLA-Lite

ERYONE PLA-Lite is a filament that has excellent basic performance and excellent printing performance. It can achieve perfect printing results without complex parameter adjustments. It is a cost-effective filament that is very suitable for both novices and veterans. It is a filament with a matte effect, high-quality temperament, no layer lines, and excellent mechanical properties, which can meet the needs of most appearance models.

Part I: Suggests Printing Parameters

Parameter	Set up
Nozzle temperature	190-220 °C
Bed temperature	55-70°C
Bed material	glass, PEI, spring steel plate
Bottom printing temperature	not
Sealed printing	Supports open/closed printing
Printing speed	30-500mm/s
Drying conditions	50-60°C, 6h

Part II: Physical Properties of Materials

Property	Testing Method	Unit	Typical Value
Density(g/cm ³ at 21.5 ° C)	ASTM D792 (ISO 1183, GB/T 1033)	g/cm ³	1.4
Heat distortion temperature(° C)	ASTM D648 0.45MPa	°C	60
Glass transition temperature (° C)	DSC, 10 ° C/min	°C	62
Melt Index(g/10 min)	210 ° C, 2.16 kg	g/10min	13.7

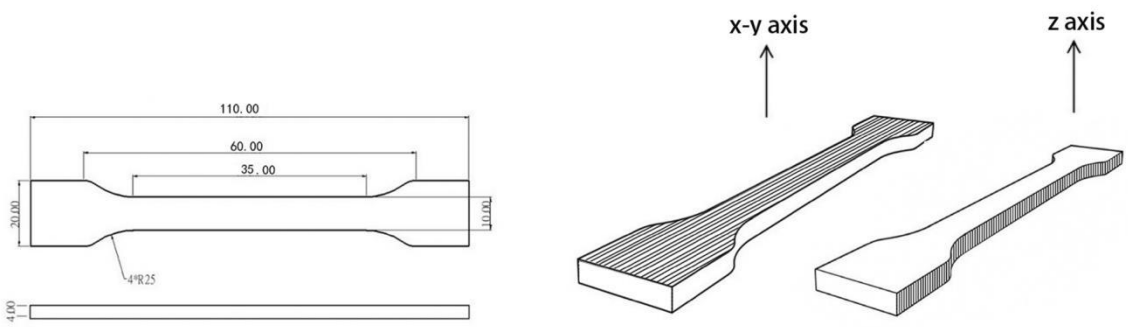
Part III: Mechanical Properties of Printed Samples

Property	Test conditions	Test standards	unit	Typical Value
Tensile strength X-Y	50mm/min	GB/T 1040.4	MPa	32.4
Elastic modulus X-Y	50mm/min	GB/T 1040.1-2006	MPa	715.3
Elongation at break X-Y	50mm/min	GB/T 1040.4	%	7.0
Tensile strength X-Z	50mm/min	GB/T 1843	MPa	18
Elastic modulus X-Z	50mm/min	GB/T 1040.1-2006	MPa	603.4
Elongation at break X-Z	50mm/min	GB/T 1040.4	%	1.8
Bending strength	2mm/min	GB/T 9341	MPa	50.9
Bending modulus	2mm/min	GB/T 9341	MPa	2039.5
Charpy Impact strenght	2.75J	GB/T 1843	kJ/m2	3.7

Note: All splines are printed under the following conditions: printing temperature=220 ° C, printing speed=100mm/s, base plate 55° C, filling=100%, nozzle diameter=0.4mm

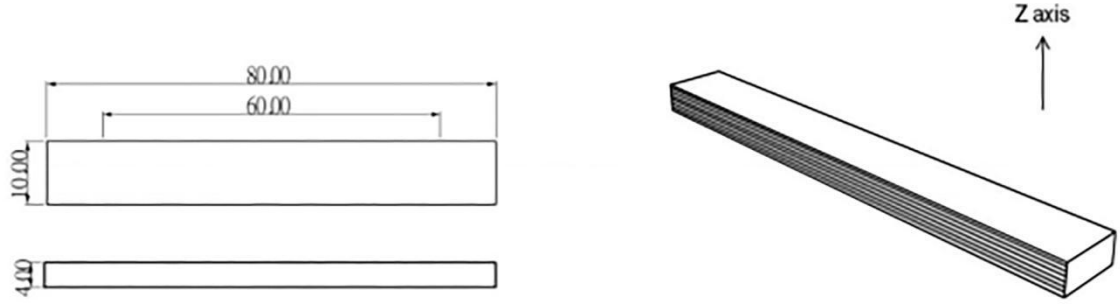
TENSILE TESTING SPECIMEN

ISO 527,GB/T 1040



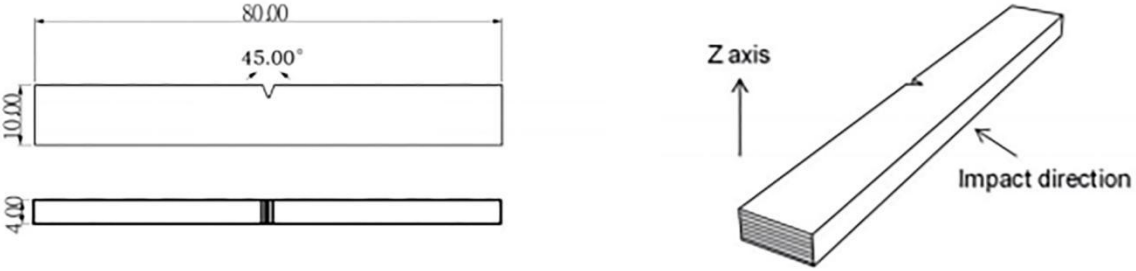
FLEXURAL TESTING SPECIMEN

ISO 178,GB/T 9341



IMPACT TESTING SPECIMEN

ISO 179,GB/T 1043



Disclaimers

The values given in this data table are for reference and comparison only. They should not be used for design specifications or quality control. The actual value may vary depending on the printing conditions. The final performance of printed components depends not only on the material, but also on the component design, environmental conditions, printing conditions, and so on. Product specifications are subject to change without prior notice.