

PLA TDS

Polylactide

Product Description

AzureFilm PLA (Polylactide) is a filament with good mechanical properties and excellent printing quality. This filament is suitable for parts that require high strenght and stiffness and easy processability (no warping, no irritating smell).

Properties

Property of 3D printed	Test condition	PLA
specimens		
Tensile modulus [MPa]	1 mm/min	3,3
Tensile strength [MPa]	50 mm/min	59,0
Strain at break (Tensile) [%]	50 mm/min	4,2
Strain at tensile strength [%]	50 mm/min	3,8
Flexural modulus [GPa]	2 mm/min	2,8
Flexural strength [MPa]	2 mm/min	73,6
Flexural strain at flexural	2 mm/min	3,3
strength [%]		
Strain at break (Flexural) [%]	2 mm/min	3,3
Charpy unnotched [kJ/m²]	23 °C	10,4

Test specimens print settings

3D printer: AzureFilm Infill: 20 % Nozzle temperature: 200 °C Slicer: Cura Shells: 2 Bed temperature: 55 °C Nozzle: 0,4 mm Print speed: 50 mm/s

Printing Recommendations

Nozzle temperature: 200 – 230°C

Heated bed: Not required (recommended 50-60 °C)

Print speed: 50 - 100 mm/s

Build platform: Blue tape, Kapton tape, Glass bed, Wood bed