

Description

A material specially developed for aeromodelling. The interlayer bonding is stable, and the foaming rate and strength can be controlled by adjusting the printing temperature. Using active foaming technology to achieve lightweight, low-density PLA parts, the foaming volume ratio is 220%, and the density is as low as 0.54g/cm³. Foaming makes the layered pattern almost invisible, and the surface of the printed item is matte and delicate. Under the same model and at the same speed, the lightweight PLA enables the model aircraft to have a lighter wing load and a lower stall speed, which can greatly improve the performance of the model aircraft.

**RoHS
Compliant**

Sellingpoint

Density as low as 0.54g/cm ³	Good interlayer adhesion
Foaming volume ratio 220%	Easy to paint
Free adjustment of strength and foaming ratio	Excellent printability
Excellent matte surface effect	

Filament Properties Table

3D Printing Filament	ePLA-LW
Density (g/cm ³)	1.2
Heat Distortion Temp (°C, 0.45MPa)	53
Melt Flow Index (g/10min)	8.1(190°C/2.16kg)
Tensile Strength (MPa)	32.2
Elongation at Break (%)	68.9
Flexural Strength (MPa)	41.31
Flexural Modulus (MPa)	1701
IZOD Impact Strength (kJ/m ²)	8.58
Durability	4/10
Printability	9/10
Recommended printing parameters	
Extruder Temperature (°C)	190°C to 270°C
Bed temperature (°C)	45°C to 60°C
Fan Speed	100%
Printing Speed	40mm/s to 100mm/s
Heated Bed	Optional
Recommended Build Surfaces	Masking paper, PVP solid glue, PEI

Part Number Table

Description	Part Number
Light Weight PLA, 1.75mm, Natural, 1Kg	MP010754
Light Weight PLA, 1.75mm, Black, 1Kg	MP010755

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