

# Technical datasheet

## colorFabb LW-PLA

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ColorFabb LW-PLA is a high quality expanding PLA 3D printing filament. The first filament of its kind using an active foaming technology to achieve light weight, low density PLA parts. At around 230C this material will start foaming, increasing its volume by nearly 3 times. Users can decrease material flow by 65% to achieve light weight parts, or use the expanding properties to effectively reduce print time by using big layer heights or single extra thick perimeters.

### TYPICAL MATERIAL PROPERTIES

Physical properties	Unit	Value	Method
Density	g/cm <sup>3</sup>	0.40 - 1,24	-
Glass Transition Temperature	°C	55 - 60	DSC

### FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,05	≥ 95%
2,85 mm	± 0,10	≥ 95%

### GUIDELINE FOR PRINT SETTINGS

Nozzle temperature	195 - 250°C
Bed temperature	50 - 60°C
Bed surface / modification	Tape or glue
Active cooling fan	0-100%
Print speed	40-80 mm/s

#### Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.