

TECHNICAL DATA SHEET

LW-PLA UltraFoam

MATERIAL PROPERTIES

Density	0.40 - 1.24 g/cm³		
	@ 210°C; 100% Flow	@ 255°C; 60% Flow	
Mechanical properties			
Charpy impact strength			
unnotched (at 23°C)	-	5.70 kJ/m ²	ISO 179-1eU
notched (at 23°C)	-	4.32 kJ/m²	ISO 179-1eA
Tensile Modulus	3250 MPa	920 MPa	ISO 527
Tensile Strength	47 MPa	-	ISO 527
Tensile strain at break	8%	13.97%	ISO 527
Thermal properties			
Heat Deflection Temperature			
0.45mn/m ²	59°C	-	
1.81mn/m²	53°C	-	

GUIDELINE FOR PRINT SETTINGS*

190 - 250°C
40 - 50°C
0 - 100%
0.05 - 0.3 mm
0.4 - 2.7 mm
30 - 100 mm/s
not necessary
not necessary
not necessary

^{*} settings are based on a 0,4 mm nozzle.

Disclaimer

The product- and technical data provided in this datasheet is correct to the best of Spectrum Group Sp. z o.o. knowledge and are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary according to printing conditions, model complexity, environmental conditions, etc. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Spectrum Group Sp. z o.o. shall not be made liable for any damage, injury or loss induced from the use of Spectrum Group Sp. z o.o. materials in any particular application.

DESCRIPTION

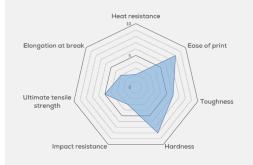
Spectrum LW-PLA UltraFoam is a modern filament based on PLA. The uniqueness of this material results from the use of innovative active foaming technology, activated by temperature. The unique properties of this filament allow you to enjoy not only low weight, but also exceptional durability and precision of prints. The matte and rough surface finish provides an attractive appearance for the prints and effectively masks the layers.

FEAUTURES

- \bullet Significant reduction in the weight of printed parts, up to 70%
- Active foaming technology
- Customizable material density
- One spool of Light Weight PLA can yield the same number of prints as three spools of standard PLA due to significantly reduced flow
- · Matte finish that highly reduce layers visibility

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at support@spectrumfilaments.com



^{**} depending on the geometrical complexity