

LW-ASA UltraFoam

MATERIAL PROPERTIES

Physical

Density	1,08 g/cm ³
Density (foamed)	0,36 g/cm ³

Mechanical

Tensile Strength, at Yield, 23°C, 50mm/min, 3.2mm	39 MPa
Tensile Elongation at Break, 23°C, 50mm/min, 3.2mm	32% (Min)
Tensile Modulus, 23°C, 50mm/min, 3.2mm	1600 MPa
Flexural Strength, 23°C, 15mm/min, 3.2mm	59 MPa
Flexural Modulus, 23°C, 15mm/min, 3.2mm	1750 MPa
Izod Impact Strength, Notched, 3.2mm, 23°C	405 J/m
Izod Impact Strength, Notched, 6.4mm, 23°C	320 J/m

Thermal properties

Softening temperature	90 °C
Melting temperature	from 200 °C
Heat deflection temperature of printed parts	up to 80 °C

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature - standard speed	220-285°C
Bed temperature	60-90°C
Active cooling fan	0-20%
Shell thickness**	0.4 - 2.7 mm
Layer height**	0.5 - 3.0 mm
Closed chamber	recommended for larger prints
Dry box	Yes
Ruby or hardened nozzle	No
Drying (if wet)	recommended***
Adhesive	recommended (glue stick, Dimafix, 3DLac, Magigoo)

* settings are based on a 0.4mm nozzle

** depending on the geometrical complexity

*** at least 6h at 75°C using a hot dry air oven

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

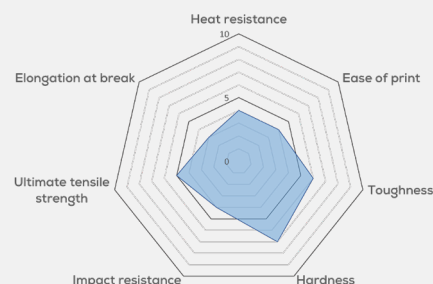
Filament Spectrum LW-ASA UltraFoam is a professional technical filament that combines the excellent UV and weather resistance of ASA with advanced active foaming technology. Thanks to the unique properties of the material, it enables up to 3x weight reduction of printed parts without compromising strength or surface quality. LW-ASA UltraFoam is an ideal solution for users seeking lightweight, durable, and visually appealing prints for outdoor and technical applications where weight and efficiency matter.

FEATURES

- Adjustable material density – full control over flow and part structure
- Low final density – as low as approx. 0.33g/cm³
- Active foaming technology – activated at 230–285°C
- UV and weather resistant – ideal for outdoor applications
- Matte finish hides layer lines

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