Spectrum FILAMENTS

TECHNICAL DATA SHEET

Pellet PLA Premium

MATERIAL PROPERTIES

Specific Gravity	1.24 g/cm³	D 792
MFR (210°C, 2.16kg)	6 g/10min	D 1238
Mechanical Properties		
Tensile Strength at Break	53 MPa	D 882
Tensile Yield Strength	60 MPa	D 882
Tensile Modulus	3.5 Gpa	D 882
Tensile Elongation	6,00%	D 882
Notched Izod Impact	16 J/m	D 256
Flexural Strength	83 MPa	D790
Flexural Modulus	3.8 MPa	D790
Thermal Properties		
Heat Distortion Temperature	55°C	E 2092
Glass Transition Temperature	55-60°C	D3418

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	185-215°C
Bed temperature	0-45°C
Active cooling fan	YES (up to 100%)
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	not necessary

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

DESCRIPTION

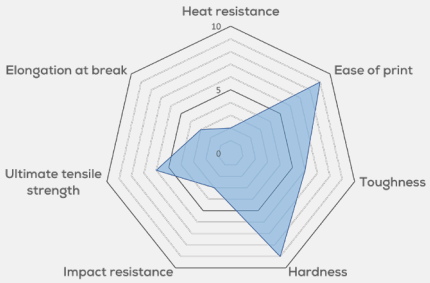
Spectrum Pellet PLA Premium made from biodegradable material dedicated to 3D printing using FGF technology, can be extruded at a standard printing temperature identical to our PLA Premium filament, which makes printing process easier and much faster. Unlike most pellets offered only in natural color, Spectrum Pellet PLA Premium is also available coloured – meaning that you can print in the color of your choice.

FEAUTURES

- made of biodegradable raw materials
- good mechanical properties (high hardness and tensile resistance)
- user friendly
- high aesthetic surface quality
- good for creating high-resolution parts
- high rigidity of printed items

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**