

## **TECHNICAL DATA SHEET**

# Pellet rPLA

### **MATERIAL PROPERTIES**

Specific Gravity	1.24 g/cm <sup>3</sup>	D 792
MFR (210°C, 2.16kg)	5-7 g/10min	-
Mechanical Properties		
Tensile Strength at Break	53.5 MPa	ISO 527
Tensile Strength at Yield	50.2 MPa	ISO 527
Tensile Modulus	3420 MPa	ISO 527
Elongation at Yield	5,50%	ISO 527
Flexural Strength	60.7 MPa	ISO 178
Flexural Modulus	3780 MPa	ISO 178
Thermal Properties		
VICAT Softening Temparature	55°C	ISO 306
Glass Transition Temperature	55-60°C	DSC

### **GUIDELINE FOR PRINT SETTINGS\***

Nozzle temperature	190-215°C	
Bed temperature	40-50°C	
Active cooling fan	YES (up to 100%)	
Closed chamber	not necessary	
Dry box	not necessary	
Ruby or hardened nozzle	not necessary	

 $<sup>^{\</sup>ast}$  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 Spectum Group Sp. z o.o. materials in any particular application.

### DESCRIPTION

Spectrum FGF Pellet rPLA is an environmental-ly-friendly 3D printing material that fits into a sustainability initiative. The material is created by reusing the recycled extrusion residual waste stream. The raw material is collected, shredded, re-mixed and homogenised into a high-grade and easy-to-print recycled FGF PLA pellet with much less environmental impact.

### **FEAUTURES**

- · manufactured from recycled materials
- lower environmental impact by reusing waste
- easy printing, similar to normal PLA
- · no shrinkage after cooling

### 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



<sup>\*\*</sup> depending on the geometrical complexity