

## **TECHNICAL DATA SHEET**

# **PLA Glitter**

## MATERIAL PROPERTIES

| Specific Gravity             | 1.24 g/cm <sup>3</sup> | 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%) |
| Layer height**          | 0.05 - 0.30 mm   |
| Shell thickness**       | 0.40 – 2.70 mm   |
| Print speed**           | 40-90 mm/s       |
| Closed chamber          | not necessary    |
| Dry box                 | not necessary    |
| Ruby or hardened nozzle | not necessary    |
| Recommended nozzle      | ≥ 0.4 mm         |

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

\*\* depending on the geometrical complexity

#### 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 PLA Glitter is a highly aesthetical PLAbased material blended with high-glitter particles. The particle content in the filament increases the hardness and compression resistance of printed items. There is a possibility to control the gloss level by increasing/decreasing the wall thickness.

## FEAUTURES

- reduced visibility of layers on the side face of the printed items
- improved hardness and compression resistance as compared to PLA without admixtures
- user friendly
- not abrasive
- easy to print

## 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

