

BASIC INFORMATION

PRODUCT NAME: FILAMENT 3D PLA Galaxy 1.75mm

PRODUCT DESCRIPTION: Filament PLA Galaxy is a poly(lactic acid) filament with added glitter particles, in the form of a wire, designed for FFF/FDM printing. The supplied filament is wound on a spool or on a cardboard coil (without a spool), vacuum sealed in a bag with a moisture absorber and packaged in a cardboard box. The product is designed for use with 3D printers using FDM technology. It should be used in a well-ventilated room to avoid exposure to emissions during printing. It is important to avoid direct contact with hot printer parts, which may lead to burns. Filament should be stored in a dry place, in a closed container and away from children. It is recommended to use the filament within the recommended printing temperature range for optimal results. Waste filament should be disposed of in accordance with local regulations. The product has been designed with safety in mind and meets all relevant standards for consumer use.

STORAGE: Store in dry area. Store in a closed container.

PRODUCT PARAMETERS

| PARAMETER | VALUE |
|-------------------------|---------|
| Filament diameter [mm] | 1.75 |
| Diameter tolerance [mm] | +/-0,05 |
| Oval tolerance [mm] | +/-0,02 |

RECOMMENDED PRINTING PARAMETERS

| PARAMETER | VALUE |
|-----------------------------|---------|
| 3D printing temperature [C] | 190-250 |
| Heated bed [C] | 40-60 |
| Cooling fan [%] | 70-100 |
| Closed chamber | no |
| Drying conditions [C/h] | 50/4 |

* Full colour cycle: 150g

PHYSICAL PARAMETERS OF THE MATERIAL

| PARAMETER | VALUE | UNIT | TEST METHOD |
|---|--------------------|-------------------|-------------|
| Gęstość/Density | 1,24 | g/cm ³ | - |
| Zapach/Odour | bezwonny/odourless | - | - |
| Moduł sprężystości/Tensile modulus | 3495 | MPa | ASTM D882 |
| Wytrzymałość na rozciąganie do zerwania/Tensile strength at break | 53 | MPa | ASTM D882 |
| Wydłużenie przy rozciąganiu/Tensile elongation | 6 | % | ASTM D882 |
| HDT | 55 | °C | ASTM E2092 |

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of PLA Galaxy parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use. ROSA PLAST Sp. z o.o. accepts no liability for any health detriment or material losses or any other losses related to the use of the material. Additional documents, certificates and detailed technical information can be provided on special request.

