

## BASIC INFORMATION

**PRODUCT NAME:** FILAMENT 3D PLA Speed Matt 1.75mm

PLA Speed Matt filament is a biopolymer blend based on PLA (polylactic acid) in the form of a filament, designed for 3D printing using the FFF/FDM method. It is manufactured with a special formulation that allows significantly higher printing speeds compared to standard filaments. Additionally, it features a matte surface finish. The filament is wound on a cardboard spool (without side walls), vacuum-sealed with a desiccant, and packed in a cardboard box. It is intended for use with FDM 3D printers.

**PRODUCT DESCRIPTION:** For safe operation, it should be used in a well-ventilated area to avoid exposure to emissions during printing. Direct contact with heated printer components must be avoided, as it may cause burns. The filament should be stored in a dry place, inside a sealed container, and kept out of reach of children. For optimal results, it is recommended to print within the suggested temperature range. Filament waste should be disposed of in accordance with local regulations. The product has been designed with safety in mind and complies with all relevant consumer use standards.

**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]	220-250
Heated bed [C]	40-60
Cooling fan [%]	70-100
Closed chamber	no
Drying conditions [C/h]	50/4

## PHYSICAL PARAMETERS OF THE MATERIAL

PARAMETER	VALUE	UNIT	TEST METHOD
<b>Gęstość /Density</b>	1,41	g/cm3	PN-EN ISO 1183-3:2003
<b>Moduł sprężystości przy rozciąganiu /Tensile modulus</b>	3400	MPa	PN-EN ISO 527-2:2012
<b>Wytrzymałość na rozciąganie /Tensile strength</b>	46	MPa	PN-EN ISO 527-2:2012
<b>Wydłużenie przy zerwaniu /Elongation at break</b>	0,76	%	PN-EN ISO 527-2:2012
<b>Udarność metodą Charpy'ego - karb /Charpy impact strength - notched</b>	3,36	kJ/m2	PN-EN ISO 179-1:2023-11, 1eA
<b>HDT A</b>	57	°C	PN-EN ISO 75-2:2023-06, 1,8 MPa
<b>VICAT</b>	56,5	°C	PN-EN ISO 306:2023-05, B50

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 Speed Matt 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.

