TECHNICAL DATA SHEET

FILAMENT 3D ROSA-Flex 96A

Revision date: 29.07.2025

Date of issue: 30/06/2026

BASIC INFORMATION

PRODUCT NAME: FILAMENT 3D ROSA-Flex 96A 1.75mm

PRODUCT DESCRIPTION: ROSA-Flex 96A filament - a thermoplastic polyurethane in the form of a thread, designed for 3D printing using the FFF/FDM method. Filament coiled on spools, vacuum-packed with desiccant in a PET/PE bag, and then in a 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 fume emissions during printing. It is important to avoid direct contact with hot printer components, which can 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 optimum results. Dispose of waste filament 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]	220-250
Heated bed [C]	30-60
Cooling fan [%]	0-60
Closed chamber	not required
Drying conditions [C/h]	80/4

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PHYSICAL PARAMETERS OF THE MATERIAL

PARAMETER	VALUE	UNIT	TEST METHOD
Density	1.22	g/cm3	ISO 1183
VICAT	126	°C	ISO 306 (1 kg, 50°C/h)
Tensile strength	55	MPa	EN 12803
Tear strength	140	kN/m	ISO 34
Elongation at break	350	%	EN 12803
Abrasion resistance	35	mm3	EN 12770
Glass transition temperaturę (Tg) DSC	-25	°C	-
Glass transition temperaturę (Tg) DMA	-201	°C	-
Elastic modulus at 5% of elongation	7	MPa	EN 12803
Elastic modulus at 50% of elongation	12.9	MPa	EN 12803
Elastic modulus at 100% of elongation	15.5	MPa	EN 12803
Elastic modulus at 300% of elongation	44.5	MPa	EN 12803
Food Contact Approval	YES	-	FCA declaration in separate document

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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 ROSA-Flex 96A 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.

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