TECHNICAL DATA SHEET

FILAMENT 3D ABS+ Matt

Revision date: 29.07.2025

Date of issue: 08/09/2025

BASIC INFORMATION

PRODUCT NAME: FILAMENT 3D ABS+ Matt 1.75mm

PRODUCT DESCRIPTION: ABS+ - acrylonitrile-butadiene-styrene filament for FFF/FDM 3D printing. The supplied filament is wound on a spool or without a spool (ReFill version), vacuum sealed in a PA/PE bag with 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 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]	230-270
Heated bed [C]	80-110
Cooling fan [%]	0-50
Closed chamber	recommended
Closed chamber temperature [C]	50-80
Drying conditions [C/h]	80-90/3-4

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PHYSICAL PARAMETERS OF THE MATERIAL

PARAMETER	VALUE	UNIT	TEST METHOD
Density	1,05	g/cm3	ISO 1183
VICAT	96	°C	ISO 306
Tensile modulus	2276	MPa	ISO 527
Tensile strength at yield	44	MPa	ISO 527
Tensile elongation at yield	2,5	%	ISO 527
Flexural modulus	2290	MPa	ISO 178 (2,0 mm/min)
Flexural strength	67	MPa	ISO 178 (2,0 mm/min)
Charpy impact strength (notched)	17	kJ/m2	ISO 179/1
Temperature of deflection under load	99	C	ISO 75-2/A
Flame rating	HB	-	UL94 (1,5 mm)
Flame rating	HB	-	UL94 (3,0 mm)

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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 ABS+ 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.