TECHNICAL DATA SHEET

FILAMENT 3D ABS V0 FR

Revision date: 29.07.2025

Date of issue: 08/09/2025

BASIC INFORMATION

PRODUCT NAME: FILAMENT 3D ABS V0 FR 1.75mm

PRODUCT DESCRIPTION: ABS V0 FR filament - poli(akrylonitryl-co-butadien-co-styren) 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]	230-270
Heated bed [C]	80-110
Cooling fan [%]	0-50
Closed chamber	required
Closed chamber temperature [C]	50-80
Drying conditions [C/h]	80-90/4-6

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PHYSICAL PARAMETERS OF THE MATERIAL

PARAMETER	VALUE	UNIT	TEST METHOD
Density	1,2	g/cm3	D792
VICAT	119	°C	ASTM D1525 (10 N - 120°C/h)
VICAT	109	°C	ASTM D1525 (50 N - 120°C/h)
Elastic modulus	2450	MPa	D790
Tensile modulus	42	MPa	D638 (23°C 50 mm/min)
Tensile strength	39	MPa	D638 (23°C 50 mm/min)
Tensile elongation	5	%	D638 (23°C 50 mm/min)
Glow-Wire Ignition Temperature	960	°C	IEC 60695-2-13 (2,0 mm)
Flame rating	V0	-	UL94 (1,6 mm)
Flame rating	V0	-	UL94 (3,2 mm)
UV resistant	YES	-	-

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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 V0 FR 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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