

PRODUCT NAME: 3D FILAMENT ABS FR V0 1,75mm

PRODUCT DESCRIPTION: ABS+ 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 PA/PE bag, and then in a box.

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	
Net weight [g]	1 000	2 500
Weight with packaging [g]	1 400	3 500
Weight with packaging (refill) [g]	1 155	
Spool weight [g]	Transparent PC: 245	710
Cardboard core (refill) [g]	30	
Spool dimensions [mm] (\varnothing / height / hole \varnothing)	Transparent PC: 200/55/52	300/103/52
Box dimensions [mm]	218/209/62	340/320/115

RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	230-270
Bed temperature [°C]	80-110
Cooling [%]	0-50
Closed chamber	recommended
Chamber temperature [°C]	<70

We recommend drying the filament before printing for 3-4 hours at 80-90°C.

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,05	g/cm ³	ISO 1183
VICAT	96	°C	ISO 306

ROSA PLAST Sp. z o.o.

ul. Hipolitowska 102B, 05-074 Hipolitów

tel.: +48 22 783 62 62, www.rosa3d.pl

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/m ²	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)

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+ 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.

