

**PRODUCT NAME:** 3D FILAMENT ABS FR V0 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.

**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]	700
Weight with packaging [g]	1 100
Spool weight [g]	245
Small spool dimensions [mm] ( $\phi$ / height / hole $\phi$ )	200/55/52
Box dimensions [mm]	218/209/62

## RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	220-260
Bed temperature [°C]	80-110
Print speed [mm/s]	50-60

## PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,20	g/cm <sup>3</sup>	D792
VICAT	119	°C	ASTM D1525 (10 N - 120°C/h)
VICAT	109	°C	ASTM D1525 (50 N - 120°C/h)

Tensile modulus	2450	MPa	D790
Tensile strength	42	MPa	D638 (23°C 50 mm/min)
Tensile strength at break	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	-	-

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.

