

PRODUCT NAME: 3D FILAMENT ASA 1,75mm

PRODUCT DESCRIPTION: ASA filament is a acrylonitrile styrene acrylate in the form of a thread. Material is suitable for outdoor application with medium exposure to UV light. Material is resistant for water exposure, including immersion.
 Filament is 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]	small spool: 700
	large spool: 2500
Weight with packaging [g]	small spool: 1 100
	large spool: 3500
Spool weight [g]	small transparent spool: 245
	small wood spool: 190
	large spool: 710
Spool dimensions [mm] (ϕ / height / hole ϕ)	small spool: 200/55/52
	large spool: 300/103/52
Box dimensions [mm]	small spool: 218/209/62
	large spool: 340/320/115

RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	230-260
Bed temperature [°C]	70-110

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,07	g/cm ³	-
VICAT	94	°C	ASTM D1525
Tensile modulus	1725	MPa	ASTM D638 (1 mm/min)
Tensile strength to break	40	MPa	ASTM D638 (50 mm/min)
Elongation at break	35	%	ASTM D638 (50 mm/min)
Izod impact strength (notched)	40	kg*cm/cm	ASTM 256
Hardness	91	R-scale	ASTM D785
HDT	85	°C	ASTM D648 (6,4mm; 18,6kg)
HDT	94	°C	ASTM D648 (6,4mm; 4,6kg)
Flame rating	HB	-	UL94 (1,6mm; 3,2mm)
Dielectric strength	28	kV/mm	ASTM D149
Comparative Tracking Index CTI	PLC 0	-	UL 746
Volume resistivity	1*10 ¹⁵	Ω*cm	ASTM D257

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 ASA 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.

