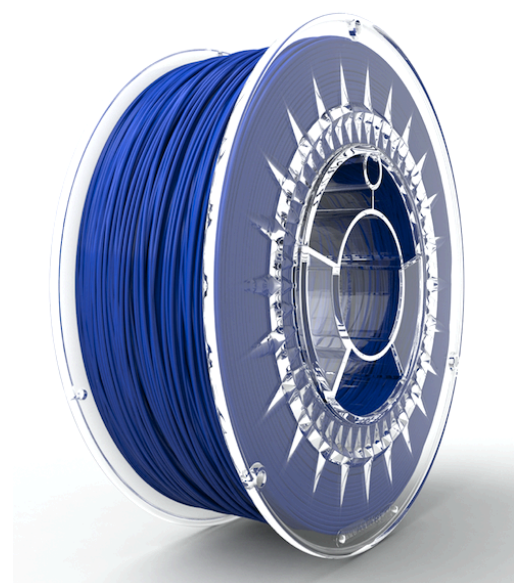


Product card: ASA filament for 3D printing.

**Product description:** Filament ASA - thermoplastic plastic in the form of fiber, used for 3D printing using the FFF method. Filament wound on a spool, vacuum packed with a moisture absorber. The spool contains 1 kg of net material. It can be used in all FFF printers that are not protected from external suppliers and open source structures before using. ASA is a material with increased resistance to weather conditions and UV radiation (relative to ABS), easily subjected to mechanical treatment such as grinding or drilling, the material is soluble in acetone.

Physical properties of the product:

Diameter of filament	1.75 mm
Dimensional tolerance of filament	+/- 0.05 mm
Roundness of filament	+/- 0.02 mm
Surface of the material	Light Gloss
Shrinkage of the material	Large
Product weight	1.0 kg net, 1.36 kg gross
Spool - material	Transparent polycarbonate
Weight of the empty spool	~250 g
The diameter of the spool	200 mm
Width of spool	~70 mm
Diameter of mounting hole	52 mm
Packaging	Printed cardboard
Package size	~205x205x80 mm
Vacuum packing	Yes
Moisture absorber	Yes



Suggested printing parameters:

Hotend	230-240°C
Heated bed	90-100°C
Cooling the printout	Not recommended

*Due to the structural differences of printers, the above figures should be considered as guidelines and the corresponding values must be determined experimentally.*

## Physical properties of the material:

Specific Gravity	1.07 g/cm <sup>3</sup>	ASTM D792
Vicat Softening Temperature	96°C	ASTM D1525
Rockwell Hardness (R-Scale)	107	ASTM D785
Tensile Strength - Yield	500 kg/cm <sup>2</sup>	ASTM D638
Tensile Elongation - Break	20%	ASTM D638
Flammability	HB	UL 94

## Availability of colors and diameters:

Color	Kolor	1.75
Natural	Naturalny	✓
Bright Orange	Jasnopomarańczowy	✓
Red	Czerwony	✓
Super Blue	Niebieski	✓
Navy Blue	Granatowy	✓
Race Green	Wyścigowy Zielony	✓
Green	Zielony	✓
Aluminum	Aluminiowy	✓
Brown	Brązowy	✓
Black	Czarny	✓