# DevilDesign

**Devil Design Sp. J.** Zwirki i Wigury 65 43-190 Mikolow Poland

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, 1.4 kg gross
Spool - material	Transparent policarbonate
Weight of the empty spool	~257 g
The diameter of the spool	200 mm
Width of spool	~70 mm
Diameter of mounting hole	52 mm
Packaging	Printed cardboard
Package size	~230x210x80 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.

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### Physical properties of the material:

Specific Gravity	1.07 g/cm3	ASTM D792
Vicat Softening Temperature	96°C	ASTM D1525
Rockwell Hardness (R-Scale)	107	ASTM D785
Tensile Strength - Yield	500 kg/cm2	ASTM D638
Tensile Elongation - Break	20%	ASTM D638
Flammability	НВ	UL 94

#### Availability of colors and diameters:

Color	Kolor	1.75
Natural	Naturalny	$\checkmark$
Orange	Pomarańczowy	$\checkmark$
Hot Red	Czerwień	$\checkmark$
Navy Blue	Granatowy	$\checkmark$
Green	Zielony	$\checkmark$
Aluminum	Aluminiowy	$\checkmark$
Brown	Brązowy	$\checkmark$
Black	Czarny	$\checkmark$

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