

# ASA

Everfil™ | 3D  
Filament

## TECHNICAL SPECIFICATION

### DESCRIPTION

**ASA Everfil™** Acrylonitrile-styrene-acrylate has been developed as an alternative to acrylonitrile-butadiene-styrene (ABS). It is a material with increased resistance to atmospheric conditions and is widely used in the automotive industry as well as for general prototyping in 3D printing, where resistance to UV radiation, good dimensional stability, thermal and mechanical strength are required. The material is approved for food contact and is recyclable.

### TYPICAL APPLICATIONS

- Parts and components in the automotive industry, such as covers, interior panels, mechanical elements, etc.
- Prototyping and production of details in 3D printing, due to its resistance and mechanical properties.
- Consumer products, such as electronic housings, toys, gardening tools, etc.
- Food packaging, due to approval for contact with food.
- Structural and finishing elements, such as floor mouldings, building profiles, etc.
- Industrial enclosures and shields, e.g., in electrical and electronic appliances.
- Interior equipment elements, such as handles, hinges, etc.
- Protective materials, e.g., helmets, protectors.

### TECHNICAL PARAMETERS

#### PRODUCT PARAMETERS

Diameter (mm)	1,75; 2,85
Diameter tolerance (mm)	+/-0,02
Ovality tolerance (mm)	+/-0,015

### PHYSICAL PARAMETERS

PARAMETR	NOMINAL VALUE	UNIT	TEST METHOD
<b>PHYSICAL:</b>			
Density	1,06	g/cm <sup>2</sup>	ISO -1183
Mould shrinkage 3,2 mm, flow	0,5-0,7	%	

### MECHANICAL PROPERTIES

Tensile modulus, 5 mm/min	251000-394000	psi	ISO 527-2
Flexural modules, 2 mm/min	268000-425000	psi	ISO 178
Ball indentation hardness H358/30	95	MPA	ISO 2039-1

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**IMPACT**

Isolt impact, notched 23 °C	633	J/m	ASTM D256
Isolt impact, notched -30 °C	30	J/m	ASTM D256
Charpy impact, notched 23 °C	23-37	kJ/m <sup>2</sup>	ISO 179/2C

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**RECOMMENDED PRINTING PARAMETRS**

Nozzle temperature	230-250	°C
Bed temperature	80-110	°C
Cooling	not required	
Heated chamber	not required	

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*The above data is illustrative, as it depends on the type of 3D printing equipment owned, the geometry of the specific print, and environmental conditions.*

**PACKAGING**

The filament is produced on spools weighing 1.0 kg, 2.3 kg, and 5.0 kg. The spool is vacuum-packed in a bag made of high barrier moisture barrier foil and secured with a cardboard box. An additional advantage is the possibility of multiple openings of the 1.0 kg spool bag.

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**Weight netto/brutto**

1,0 kg spool	1,00 / 1,42
2,3 kg spool	2,50/ 3,30
5,0 kg spool	5,00 / 5,90

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**Dimensions of the spool (mm)**      Ø external/ height/ hole

1,0 kg spool	200/68/52
2,3 kg spool	300/100/52
5,0 kg spool	350/100/52

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**STORAGE**

The filament must be stored in a sealed package in a cold and dry place.

**MANUFACTURER****3DKordo Spółka Jawna**

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