

KODAK 3D Printing Filament ABS (Acrylonitrile Butadiene Styrene)

Benefits:

- High impact resistance, slightly flexible.
- UV, heat and abrasion resistance.
- Ideal for post-processing for a shiny, smooth surface (advanced users).

Main application:

Functional prototypes.

Description:

ABS is a commonly used filament suitable for making more durable and stronger parts than with PLA, as it can stand higher temperatures, it is slightly more flexible and can be easily painted. It can be treated with acetone or acetone vapor to give it a glossy finish (be careful!) and to make the object stronger, or to solidly glue parts together. Use HIPS as support material for printing ABS. ABS shrinks when it cools so you should use an enclosed printer with warm and steady air temperature (>25°C) in order to prevent delamination or warping.

Recommended printer settings

Print temperature: 220-250°C
Print bed temperature: 110°C.
Fans: off.
Tips: use a closed print chamber to prevent warping and activated carbon to filter toxic fumes.

Tolerance

Diameter	Diameter tolerance	Roundness accuracy	Moisture content
1.75 mm	+/- 0.02 mm	99%	< 0.02%
2.85 mm	+/- 0.03 mm		

Physical properties

Description	Value	Test method
Density	1.05 g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (220°C/10kg)	38 g/10 min	ISO 1133