3DTRCEK

TECHNICAL DATA SHEET

ABS

ABS filament is an excellent choice when you need good mechanical properties for products that will not be exposed to UV rays.

Why 3DTrcek ABS filament?

- Exceptional strength: Durable and impact-resistant
- High thermal resistance: Up to 102°C
- Easy post-processing: Smoothing with acetone vapors
- High precision: Consistent diameter of 1.75mm +/- 0.03mm

Storage:

Store 3DTrček ABS filament in a dry, dark place in an airtight bag with a desiccant at temperatures between 0°C and 40°C. ABS absorbs moisture but is not as sensitive as PET-G during printing. After extended storage we recommend drying it in a filament dryer at 60°C for 4-8 hours before use.

Compatibility:

ABS filament can be printed at high temperatures, thus use of a full-metal hot end is recommended. As material tends to warp an enclosed chamber is recommended. An alternative solution is our ABS Plus filament, which provides an easter printing experience. With over 10 years of experience in developing 3D filaments, 3DTrček produces only the best ABS filaments, ensuring excellent results on all popular FDM printers such as Bambu Lab, Creality, Prusa, Anycubic, Elegoo, etc.

MATERIAL PROPERTIES		
Density	ASTM D792	1,04 g/cm³
Melt flow index	ASTM D1238 (220°C/10,0 kg)	7 g/10min
Melting temperature		180°C - 250°C

MECHANICAL PROPERTIES		
Tensile strength	ASTM D638	53 MPa
Tensile modulus	ASTM D638	2650 MPa
Elongation at yield	ASTM D638	> 5%
Elongation at break	ASTM D638	> 10%
Izod impact, notched 23°C	ASTM D256	280 J/m
Vicat softening temperature	ASTM D1525	102°C

PRINTER RECOMMENDATION

	Recommended	Not recommended
nozzle	Any size / all-metal	Plastic lined
Build plate	Engineering plate, high temperature plate, textured PEI plate	Cool plate
Heated chamber	Recommended, not required	
Extruder	Any type	
Air filtration system	Highly recommended	

Disclaimer: The values in the technical data sheet are intended to be used as a reference and for comparison purposes only. They should not be used for design specification or quality control purposes. These values greatly depend on printing conditions, environmental conditions, part orientation and part design.

3DTrcek d.o.o. is not responsible for any damages or injury caused by use of our filaments.