3DTRCEK

TECHNICAL DATA SHEET

ABS Plus

ABS Plus filament is an excellent choice for products that require good mechanical properties and thermal resistance, while being easier to print than regular ABS.

Why 3DTrcek ABS Plus filament?

- Easier to Print: Compared to regular ABS
- Exceptional Strength: Tough and impact-resistant
- High Thermal Resistance: Up to 93°C
- High Precision: Consistent diameter of 1.75mm +/- 0.03mm

Storage:

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

Compatibility:

ABS Plus filament can be printed at high temperatures, so a full-metal hot end is recommended. Despite reduced warping, an enclosed chamber is advised. With over 10 years of experience in developing 3D filaments, 3DTrček produces only the best ABS filaments, delivering exceptional results on all popular FDM printers like Bambu Lab, Creality, Prusa, Anycubic, Elegoo, etc.

MATERIAL PROPERTIES		
Density	ASTM D792	1,04 g/cm³
Melt flow index	ASTM D1238 (220℃/10,0 kg)	21 g/10min
Melting temperature		210℃ - 240℃

MECHANICAL PROPERTIES		
Tensile strength	ASTM D638	45 MPa*
Tensile modulus	ASTM D638	2080 MPa*
Elongation at yield	/	/
Elongation at break	ASTM D638	>40%
Izod impact, notched 23℃	ASTM D256	340 J/m**
Vicat softening temperature	ASTM D1525	93℃

*values measured in kg/cm²
**values measure in kg*cm/cm

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.