

ABS FR V0

ABS Flame Retardant V0 filament is a certified self-extinguishing filament that maintains mechanical properties comparable with of standard ABS filament.

Why 3DTrcek ABS filament?

- Fire-resistant filament: Material complies with the UL94 V-0 standard
- Exceptional strength: Strong and impact-resistant
- High thermal resistance: Up to 102 °C
- High precision: Constant diameter of 1.75mm +/- 0.03mm

Storage:

Store 3DTrček ABS FR V0 filament in a dry, dark place in an airtight bag with desiccant at a temperature between 0°C and 40°C. ABS absorbs moisture but is not as sensitive as PET-G. If not used for a long time, we recommend drying it in a dryer at 60°C for 4-8 hours before use.

Compatibility:

ABS FR V0 filament can be printed at high temperatures, so using an all-metal hot end is advisable. The material also produces very bad odors therefore an enclosed printing chamber is a must and an air filtration system is recommended. 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	1,19 g/cm ³
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MECHANICAL PROPERTIES

Tensile strength	ASTM D638	43 MPa*
Tensile modulus	ASTM D638	2250 MPa*
Elongation at yield	/	/
Elongation at break	ASTM D638	20%
Izod impact, notched 23°C	ASTM D256	235 J/m**
Vicat softening temperature	ASTM D1525	83°C
Flammability	UL94	V0

*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.