3DUNIVERSE

ABS 3D Filament Data Sheet

Acrylonitrile Butadiene Styrene (ABS)

ABS is a high strength, flexible thermoplastic suitable for printing objects which may be used in high temperature or industrial settings. Due to its high glass transition temperature, a heated bed is required to successfully print with ABS. For the best results when printing with ABS, a fully enclosed print bed is recommended.

Mechanical Properties		Test Method
Tensile Strength @ Break, PSI	5800	ASTM D638
Yield Strength, PSI	6520	ASTM D638
Tensile Elongation, %	2.6	ASTM D638
Notched Izod Impact, ft-lb/in	1.12	ASTM D256
Size Specifications		
Nominal Outer Diameter, mm	1.75/2.88	-
OD Tolerance, mm	±0.05	-
Ovality, mm	< 0.05	-

Applications

- General purpose 3D printing
- Heavy use prints
- Objects which will be exposed to high temperatures

Recommended Printer Settings

- Extruder Temperature: 220-240 °C
- Printing Speed: 50-90 mm/s
- Bed Temperature: 100-130 °C
- Bed Adhesion: Hair Spray or ABS Glue

Additional Information

- Sizes Available: 1.75/2.88mm (Custom Sizes Available)
- Custom packaging methods available upon request
- Spool Weight: 1 kg (2.2 lbs.) (Custom Sizes Available)
- All filaments are sealed with desiccants

Regulatory Compliance

- RoHS
- REACH

Rev. 4/28/2017