

tonerplastics

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 Izon Impact, ft-lb/in	1.12	ASTM D256
Size Specifications		
Nominal Outer Diameter, mm	1.75/2.88	-
OD Tolerance, mm	±0.08	-
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
- Bed Temperature: 100-130 °C
- Printing Speed: 50-90 mm/s
- Bed Adhesion: Hair Spray or ABS Glue

Additional Information

- Standard Sizes Available: 1.75/2.88mm
- Spool Weight: 1kg., 1lb., 5lb., and 10lb
- Custom packaging methods available upon request
- All filaments are sealed with desiccants

Regulatory Compliance

- RoHS
- REACH
- Toy Safe

Disclaimer:

The above information is provided in good faith. It is solely the customer's responsibility to determine if the product and information in this document are appropriate for the customer's end use. Customers are always advised to consult their 3D printer manufacturer before using Toner Plastic's filaments.