
ASA 3D Filament Data Sheet

Acrylonitrile Styrene Acrylate (ASA)

ASA is a thermoplastic created to be similar to ABS, but with better weather resistance. ASA's combination of high strength and flexibility along with its superior UV resistance makes it ideal for printing objects which may be used in the outdoors or in industrial settings. Due to its high glass transition temperature, a heated bed is required to successfully print with ASA. For the best results when printing with ASA, a fully enclosed print bed is recommended.

Mechanical Properties		Test Method
Tensile Modulus, KSI	314	ASTM D638
Yield Strength, PSI	7110	ASTM D638
Tensile Elongation, %	6.0	ASTM D638
Notched Izod Impact, ft-lb/in	2.39	ASTM D256
Material Production Specifications		
Nominal Outer Diameter, mm	1.75/2.88	-
OD Tolerance, mm	±0.05	-
Ovality, mm	< 0.001	-

Applications

- Commercial and structural outdoor applications
- Heavy use prints
- General purpose 3D printing

Recommended Printer Settings

- Extruder Temperature: 240-250 °C
- Bed Temperature: 90-130 °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

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.