

3DP ABS

ABS is an extra strong, impact-resistant filament ideal for 3D printing of solid products. Due to the process stability and physical features of Acrylonitrile Butadiene Styrene, it is a widely used thermoplastic polymer. The material is also very light and durable, making ABS particularly suitable for tools, toys, and various utensils. Printed at a slightly over-average temperature for ABS, this filament produces extra strong 3D print results.

Features:

- Very High Impact Resistance
- Extra Strong
- Stable Printing
- Light and Durable
- Limited Warping

2.85 dia (+/- 0.10mm)

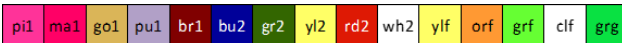
- Roundness $\geq 95\%$
- 2.2 kg (5 lb.) spools

Contact 3DP for other spool sizes and diameter filaments: Diameters available - 1.75mm, 4.5mm, 6mm

Colors normally in stock:



Check stock on these colors prior to order:



Material Properties		
Description	Test Method	Typical Value
Specific Gravity	ISO 1183	1.03 g/cc
MFR 220°C/10 kg	ISO 1133	5.5 cm ³ /10 min
Tensile Strength at Yield	ISO 527	44 mpa
Elongation at Break	ISO 527 1/2	9%
Tensile Modulus	ISO 527	2000 mpa
Impact Strength - Charpy Method 23°C	ISO 179	35 kJ/m ²
Printing Temp. Range	DF	220 - 260°C
Melting Temp.	ISO 294	245° ± 10°C
Vicat Softening Temp.	ASTM D1525	103°C

3DP WorkSeries Machine Settings	
Description	Setting
Volcano Extruder Default Print Speed	80 mm/s
HFA Extruder Default Print Speed	100 mm/s
Unspecified Machine Default Print Speed	60 mm/s
Extruder Temp. (Starting Point)	240°C
Heated build Platform Temp.	100°C
Bed Prep.	Hairspray Blue Tape
Extrusion Multiplier/Flow Rate	100%
Fan Speed	0%
Active Cooling (Fan)	N
Retraction Distance	1.10 mm

Additional info:

ABS is printed at a slightly higher temperature to make the final product extra strong.

ABS can be used on all common desktop FFF technology 3D printers.

Storage: Cool and dry (15 - 25°C) and away from UV light. This enhances the shelf life significantly.