

3DP ABS-X

ABS-X is our take on a next-generation ABS filament. By applying our zero warp technology, we have created a filament with far less cracking, near perfect interlayers, and reliable bed adhesion (glass, tape & other adhesives), while improving the mechanical properties that make ABS-X extra strong. These properties make ABS-X the ultimate ABS replacement, printing strong and beautiful parts on any FDM 3D printer without the common issues of ABS (warping & horrible bed adhesion). ABS-X is the perfect material for strong objects that require a high impact tolerance.

Features:

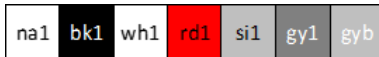
- Zero Warp Technology
- Excellent interlayer Adhesion
- Reliable Bed Adhesion (Glass, tape, and other)
- Enhanced Mechanical Properties over ABS
- Great Strength and Aesthetics

Normal Stock:

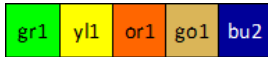
- 2.85 dia (+/- 0.10mm)
- Roundness ≥ 95%
- 2.2 kg (5 lb.) spools

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: 4.5mm, 6mm



Material Properties		
Description	Test Method	Typical Value
Specific Gravity	ISO 1183	1.1 g/cc
MFR 260°C/5 kg	ISO 1133	41 gr/10 min
Tensile Strength at Yield	ISO 527	43.6 mpa
Strain at Break	ISO 527	34%
Tensile Modulus	ISO 527	2030 mpa
Impact Strength - Charpy Method 23°C	ISO 179	58 kJ/m ²
Printing Temp. Range	DF	240 - 260°C
Melting Temp.	ISO 294	235°C ± 10°C
Vicat Softening Temp.	ISO 306	97°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)	220°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-X is printed at high temperatures to make the final product extra strong.

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

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