Version 1

ABS Kevlar Filament

ABS KEVLAR has been designed for 3D printing by a precise formulation of aramid fibers into ABS materials. The aramid fibers assuring dimensional stability ,preventing the printed object to warp and even make the printed object lighter than regular ABS.

- Light weight object. ABS Kevlar density is 1.037 g/cm^3 compared to 1,05 g/cm3 for our regular ABS.
- Smooth surface.
- No shrinkage / dimensional stability.
- Low Warping.

MATERIAL PROPERTIES	TYPICAL VALUE	TEST METHOD
Density	1.05 g/cm^3	ISO 1183
Tensile Strength at Yield	35 MPa	ISO 527-1*
Tensile Strength at Break	35 MPa	ISO 527-1*
Charpy impact strength (unnotched)	14 kJ/m2	ISO 179-1eU
Charpy impact strength (notched)	6.1 kJ/m2	ISO 179-1eA
Elastic modulus (1 mm/min)	2350 MPa	ISO 527 (1)
HDT 0.45 MN/m2, annealed	88°C	ISO 75
HDT 1.81 MN/m2, annealed	75°C	ISO 75
VICAT Softening point	95°C	ISO 306

PRINT RECOMMENDATIONS	
Nozzle Temperature	250 - 270 °C
Bed Temperature	100 °C
Print Speed	50 mm/s
Bed Adhesion	Carbon fiber / glass / pei sheet