

ABS FILAMENT

END USE

ABS, or Acrylonitrile Butadiene Styrene, is a thermoplastic that is easily molded when heated and hardens evenly when cooled. ABS is tougher and lighter than PLA which makes it ideal for prototyping.

PHYSICAL PROPERTIES

Product Code(s)	ABS-BK-1000, ABS-GY-1000, ABS-WH-1000
Colour(s)	Black, Grey, White
Tensile Strength (kg/m ²)	460 (Test Standard - ASTM D638)
Tensile Elongation (%)	25 (Test Standard - ASTM D638)
Flexural Strength (kg/m ²)	790 (Test Standard - ASTM D790)
Flexural Modulus (kg/m ²)	27000 (Test Standard - ASTM D790)
IZOS Impact Strength (kg-cm/cm)	21 (Test Standard - ASTM D256)
Melt Flow Index (g/10min)	22 (Test Standard - ASTM D1238)
Hardness (R Scale)	116 (Test Standard - ASTM D785)
Specific Gravity	1.05 (Test Standard - ASTM D792)
Vicat Softening Temp. (°C)	105 (Test Standard - ASTM D1525)
Heat Distortion Temp. (°C)	95 (Test Standard - ASTM D648)
Flammability	1.6mm, HB (Test Standard - UL 94)

APPLICATION

Tougher and lighter than PLA, it is ideal for prototyping applications.

PRINTER SETTINGS

Spool Net Weight: 1kg	Print Temperature: 220-250°C	Bed Temperature: 80 - 110°C
Diameter: 1.75mm ± 0.05mm	Print Speed: 50-90mm/s	