ABS Pro 3D Filament

Print in 3D and create prototypes, spare parts, quick and on-demand production, etc. in any shape or geometry. Gearlab 3D Filaments come in different plastic materials and with varying properties.



Gearlab ABS Pro 3D Filament

ABS, or Acrylonitrile Butadiene Styrene, is known for its toughness and impact resistance, allowing you to print durable parts that will hold up to extra usage and wear. LEGO blocks are made from this material for that same reason.

While it can be challenging to print with ABS, it is still one of the more popular material choices. A heated bed is often required to prevent warping and poor bed adhesion. Items printed with ABS Pro are more stable than normal ABS and give models a more even finish and can be sanded and smoothed quite easily.

Derived from fossil fuels, ABS is not biodegradable, and printing with it can give off a smell of burning plastic and therefore requires an open and ventilated room. ABS Pro can withstand high temperatures before it begins to deform, making it a great choice for outdoor applications.

We recomend the use of perforated plate to minimize warping probability and ensure integrity of model.

Properties

Diameter	1.75 mm
Tolerance	0.05 mm
Weight	1 kg
Printing temperature	220-240°C
Printing speed	60-90 mm/s
Layer resolution	0.1-0.2 mm
Hot bed	50-100°C
Printing raft	Not required
Printing substrate	Required
Tensile strength	≥ 53 Mpa
Impact strength	300 KJ/m
Elongation at break	20%
Distortion temperature	≥ 88°C

Features

- Improved ABS compound, which alleviates warp and cracking
- Requires a ventilated printing room
- Good impact strength and surface perfection
- Easy to print together with HIPS as support material in double extruder printers
- Stable printing size and lower material warp or shrinkage compared to normal ABS
- Ideal for follow-up processing like sanding, polisihing or surface tratment



IF YOU CAN DREAM IT, YOU CAN PRINT IT!