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# ABS Filament 1.75mm 3.0mm for 3D printer many colors

Material: ABS

Filament diameter: 1.75mm/3.0mm

Weight: About 1KG (about 2.2LBS)

Print temperature: 225-240 centigrade

Packing: 1kg/spool/polybag/box, 12boxes/carton

3D printer has been used by designers, engineers and scientists to produce the disposable mechanical products and model, and it is already widely used in health care, education, toys, building, automobile, electronics, and anime field.

There are a multitude of different 3D printing technologies out there all using different materials to build objects. We supply Siridi ABS PLA HIPS filament of 3D printing materials for the 3D printers.

Acrylonitrile butadiene styrene (ABS) is a common thermoplastic used in many applications. ABS is a strong, flexible durable plastic available in a range of colors. ABS is the plastic Lego which made from and is perfect for heated plastic extrusion 3D printing

- (1) high strength, good toughness;
- (2) density is small, when printing larger volume model lighter, save money;
- (3) cost-effective, can be processed in wide range temperatures;
- (4) Good human biocompatibility, avirulent and harmless
- (5) diameter of 3.0/1.75mm, variations  $\pm 0.1\text{mm}$ , roundness  $\pm 0.05\text{mm}$ ;
- (6) Good biodegradation, suitable for family compost degradation
- (7) to be applied to a variety of 3D printers, Makerbot, Mendel, Prusa, Huxley, WeisTek, Thingomatic, Ult, BFB series, etc

## Specifications

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Parameter	Unit	ABS
Density	g/cm <sup>3</sup> , 21.5°C	1.01
Melt Flow Index	10min, 2.16kg	5
Melt Point	°C	225-240
Heat-Deflection-Temperature	°C, 0.455MPa	85
Yield Strength	MPa, 5mm/min	45
Impact Strength	KJ/m <sup>2</sup>	16
Ensile Break	%	30
Diameter	mm	1.75/3±0.05
Color	-	28 colors

## Production Control

### 1. Produce process

I . Before produce extruding filament, we will dry ABS and PLA for a enough time (3-5 hours).

II. Mix with colors masterbatch or colors powder, all which .certified with ROHS.

III. Adjust temperature and dragging rate , make filament diameter range at 1.75/3±0.05mm, roundness +/-0.05mm, each spool net weight 1kg+/-0.05kg

IV we put all filament spool in shelf, different kind in different shelf, all categories arrange orderly.

### 2. Production quality control

I. we have diameter laser detect kits to control extruding rate on line, when diameter smaller or higher than accept range, the laser detect kits will adjust the extruding rate higher or smaller to make diameter range at acceptable.

II. Keep each record filament samples sent to customers, build a tracking able document.

III. When the filament put on shelf longer than half a year, we will dry the filament again.

### 3. About waste & recycle

Much time you will find some black filament is too brittle, that added and mixed with some recycle and scrap after produced.

We haven't produced with scrap outlet, rework& recycle material, or dispose, but for quality assurance purpose.

### 4. Packaging

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We put each filament /spool on seal PE vacuum bag, then in smaller box, then out big carton

We also have vacuum heated bag to replace of PE bag, make better avoid moisture.

## 5. Research and developing

We have engineers that specialty in color formulation ,plastic modification, packaging, quality control ,producing control, we can do according to your requirements .

Payment accepts:

T/T, PayPal, Western Union wire

Shipping:

### 1. By express,

if you live where far from China(like Russia, Middle East, East Euro, South America ,Africa), we will choose go by china post, maximum 2kg, , it is cheaper go by air when quantity bigger than 50kg .

East/South Asian, West Euro, North America, Australia are good price go by express and not quantity limited.

### 2.By sea,

When quantity more than 300kg, we can go by sea, it is very cheap, about \$350 -500.and some fee you should pay to local port and warehouse, you can contact the shipping company to take the goods from port to your address.