ABS Filament 1.75mm 1k

ABS FILAMENTS FEATURES

ABS Filaments are great necessary materials for 3D printers. It's heated bed work perfectly with ABS filament

- **ABS** is lightweight thermoplastic that's great for extruding. It's less brittle than PLA and has a higher temperature resistance of 200-250°C. It's great for experience 3D printers and engineers. One disadvantage of **ABS** is that it lets off a chemical smell so it's a good idea to print in a well ventilated area
- **ABS** requires a bed temperature between 60°C – 120°C

تفاصيل مادة (ABS)

يعتبر البترول المادة الخام الأساسية المكوّنة لمادة الأكريلونيتريل- بوتادين- ستيرين (ABS) البلاستيكية. وهي من المواد القاسية الممتصة للصدمات والتي يمكن استخدامها لبناء مجسمات بلاستيكية قوية صالحة للاستخدام اليومي، مثل أجزاء السّيارات، قطع التّجهيزات الكهربائية أو حتّى مكونات مكعبات ليجو التّركيبية الشّهيرة.

الخصائص الحرارية لمادة (ABS)

مؤشرحجم الانصهار : 9.7 سم مكعب لكل 10 دقائق
درجة حرارة التحول الزّجاجي : 105 درجة مئوية
درجة حرارة الهبوط : 110–125 درجة مئوية
درجة حرارة الانصهار : 210–240 درجة مئوية
درجة حرارة الطّباعة : 230–250 درجة مئوية
درجة حرارة سطح الطّباعة المقترحة : 80–120 درجة مئوية ة (يلزم وجود سطح حراري)

الطّباعة باستخدام خامة ABS تتطلب البعض من الخبرة الضّرورية للاختيار الأنسب لإعدادات الضّبط

PLA Filament 1.75mm 1k

FEATURES

KG (approximately 2.20 lbs) Spool 1
1.75mm Filament Diameter – +/- 0.05mm

PLA (Polylactic Acid) 3D Printer Filament Vacuumed Sealed With Desiccant
Recommended Print Settings: 190-220℃
℃First Layer Temperature: 195

تفاصيل مادة (PLA)

متعدد حمض اللّاكتيك (PLA) هي مادة عضوية مكونة من حمض "البوليلاكتيك" المستخرج من حمض اللاكتيك ويمكن اعتباره بوليمر حيويّ، أي بلاستيك قابل للتحلل حيوياً. يتم تصنيع الـ PLA من المواد الخام المتجددة مثل نشاء الذّرة وقصب السّكر. وبعيداً عن الطّباعة الثّلاثية الأبعاد، تُستخدم هذه المادة إجمالاً في التّعليب، التّغليف، الأكواب البلاستيكية، وزجاجات الماء البلاستيكية ، و تُعتبر أكثر لزوجة وتتمدد بشكل أكبر عندما تنصهر .

الخصائص الحرارية لمادة (PLA)

مؤشرحجم الانصهار : 10.3 سم مكعب لكل 10 دقائق
درجة حرارة التحول الزّجاجي : 60 – 65 درجة مئوية
درجة حرارة الهبوط : 70–80 درجة مئوية
درجة حرارة الانصهار : 160–190 درجة مئوية
درجة حرارة الطّباعة : 190–220 درجة مئوية
درجة حرارة سطح الطّباعة المقترحة : 50–70 درجة مئوية (لا يلزم استخدام سطح حراري)

+Ultimaker 2 Extended

The Ultimaker 2 Extended+ is easy and reliable, updated for the best experience in 3D .printing

Technology: Fused Filament Fabrication

Features: Stand-alone SD-card printing, Wi-Fi printing ready, Heated bed

Dimension: 357mm/342mm/488mm

,**Build volume L/W/H:** 223mm/223mm/305mm

Layer resolution Low: 200 micron (0.2mm), Medium: 100 micron (0.1mm), High:
(60 micron (0.06mm), Ultra High: 20 micron (0.02mm

Speed Print: 30mm/s – 300mm/s

Travel: 30mm/s – 350mm/s

Filament/Nozzle diameter: 2.85mm/0.4mm

Positioning precision X/Y/Z: 12.5 micron/12.5 micron/5 micron

Supplied software: Cura – O_cial Ultimaker Software

File types: STL/OBJ/DAE/AMF

Supported: OS Windows/Mac/Linux

+Ultimaker 2

.Engineered to perform, the Ultimaker 2+ is reliable, efficient, and user-friendly

Technology: Fused Filament Fabrication

Features: Stand-alone SD-card printing, Wi-Fi printing ready, Heated bed

Dimensions:357mm/342mm/388mm

Build Volume:230mm/225mm/205mm L/W/H

Layer Resolution: Low 200 micron (0.2mm), Medium 100 micron (0.1mm), High 60 (micron (0.06mm), Ultra High 20 micron (0.02mm

Speed Print:30mm/s – 300mm/s

Travel:30mm/s – 350mm/s

Filament/Nozzle Diameter:2.85mm/0.4mm

Supplied Software: Cura – O_cial Ultimaker Software

File Types: STL/OBJ/DAE/AMF

Supported: OS Windows/Mac/Linux

Ultimaker ABS Filament 2.85mm 750g

Ultimaker ABS (acrylonitrile butadiene styrene) is formulated to minimize warping and ensure consistent interlayer adhesion. ABS material is a great choice for creating functional prototypes and .complex end-use parts
Ultimaker's ABS filament is one of the easiest to use on the market. When combined with the .Ultimaker 2+ and Cura's material profiles, even tricky mechanical parts are realized with ease

.ABS plastic spools come in 0.75kg. 2.85mm diameter

:Printing Settings

Print bed: 80 C •
Nozzle temp: 250 C •
(Fan: 20% (Your print will fail if set too high •
(Bed Material: glue stick + glass (glue stick a must •
Adhesion Setting: Brim •
(Door: recommended (advanced printing kit •

:Reasons to Choose Ultimaker ABS

Excellent interlayer adhesion •
Good bed adhesion •
Enhanced strength for functional prototypes and manufacturing end-use parts •
Enhanced mechanical properties over regular ABS •
Not suitable for applications where the printed part is exposed to temperatures up to 85ºC •

Ultimaker Breakaway Filament 2.85mm 750g

Ultimaker Breakaway Material Ultimaker Breakaway is a support material for multi-extrusion 3D printing. Breakaway support is quick to remove and does not need further post-processing for a smooth finish on your 3D print. Designed for a hassle-free 3D printing experience, Breakaway provides good .+adhesion to ABS, PLA, Nylon, CPE, or CPE

Breakaway plastic spools come in 0.75kg. 2.85mm diameter

:Reasons to Choose Breakaway Supports

No sanding or waiting for your support material to dissolve. Simply print and break it away •
Ensures a smooth surface finish on your model •
+Great results when combined with ABS, PLA, Nylon, CPE, or CPE •
Long shelf life and less moisture sensitive compared to water-soluble support material, such as • PVA
Ideal for use with build materials that are sensitive to water •

Ultimaker CPE Filament 2.85mm 750g

Ultimaker CPE (co-polyester) material is an ideal choice for 3D printing functional prototypes and .mechanical parts

.CPE plastic spools come in 0.75kg. 2.85mm diameter

:Print Settings

Print speed: 35-50mm/s •
nozzle temp: 250C •
Bed Temp: 70 C •
Fan = 80% •
Flow = 105% •
(Bed material: Glass with Stick glue or adhesion sheet (advanced printing kit •
(Door: recommended but not required (advanced printing kit •

:Reasons to Choose Ultimaker CPE

Excellent toughness with resistance to chemicals and temperatures up to 70º C •
Dimensional stability over longer periods of time •
Low odor and low ultrafine particle emissions and gases •
Ideal for short run manufacturing and functional prototypes •
Transparent option available •
Not suitable for applications where the printed part is exposed to temperatures up to 70ºC •

Ultimaker NYLON Filament 2.85mm 750g

Ultimaker Nylon (Polyamide): Abrasion-Resistant And Durable

Used by many manufacturers worldwide, Nylon (polyamide) is well-known for its impressive durability, high strength-to-weight ratio, flexibility, low friction, and corrosion resistance. Its ability to withstand significant .mechanical stress makes it a great choice for 3D printing tools, functional prototypes, and end-use parts

.Nylon plastic spools come in 0.75kg. 2.85mm diameter

:Print Settings

Print speed: 35-50mm/s •
Nozzle temp: 250 C •
Bed Temp: 60 C •
Fan = 35% •
Bed material: Clean Glass •
Bed material on difficult prints: Stick Glue or Adhesion sheet •
Adhesion Setting: Raft for large parts, Brim for small •

:Reasons to choose Ultimaker Nylon

Industrial-grade impact and abrasion resistance •
Durable •
High strength-to-weight ratio •
Low friction coefficient •

Good corrosion resistance to alkalis and organic chemicals •
Reduced humidity absorption when compared to other Nylon filaments •
Seamless 3D printing experience •

(Ultimaker Original+ (DIY 3D Printer Kit

The original 3D printer kit by Ultimaker

Specifications

Technology: fused filament fabrication

Features: standalone SD-card printing, Wi-Fi printing ready, Heated bed

Build volume (L × W × H): 210 mm × 210 mm × 205 mm

Dimension: 357 mm × 342 mm × 388 mm

Layer resolution: low (200 micron (0.2mm)), medium (100 micron (0.1mm)), high (60 micron (0.06mm)) ((and ultra-high (20 micron (0.02mm

Print speed: 30 mm / s – 300 mm / s

Travel: 30 mm / s – 300 mm / s

Filament diameter: 2.85 mm

Nozzle diameter: 0.4 mm

Positioning precision X, Y, Z**:** 12.5 microns, 12.5 microns, 5 micron

Supplied software: Ultimaker Cura

Supported file types: STL, OBJ, DAE, and AMF

Supported operating systems: Windows, Mac, and Linux

Ultimaker PCA Filament 2.85mm 750g

With Ultimaker PCA (polycarbonate) filament, you can print strong and tough parts that retain dimensional stability when subjected to temperatures as high as 110 C. Our PC is a perfect filament for printing molds, .tools, functional prototypes and parts for short-run manufacturing

.PCA plastic spools come in 0.75kg. 2.85mm diameter

Reasons to choose Ultimaker PCA

PC is a top choice material for engineers and manufacturers who require parts that need to retain its .strength, toughness and shape while operating in high-temperature environments

High toughness, especially for the non-transparent filament options •
Resists temperatures and retains form up to 110 C •
Flame retardant characteristics •
Dimensionally stable •
Strong interlayer bonding capabilities, especially when using the front door add-on •
Good bed adhesion, especially when using the stickers supplied in the Advanced 3D Printing Kit •
Allows printing of translucent parts for lighting applications with a transparent filament option •

Ultimaker PLA Filament 2.85mm 750g

Ultimaker PLA (polylactic acid) is highly versatile and easy to print. It prints reliably with high dimensional accuracy and a quality surface finish. This makes it an ideal material for a range of applications – from .detailed prototypes to simple manufacturing jigs and gauges

.PLA plastic spools come in 0.75kg. 2.85mm diameter

:Ultimaker PLA is ideal for a wide range of applications, including

Manufacturing aids ▪
Architectural models ▪
Medical visualization aids ▪
Casts and molds for metal or ceramic parts ▪
Concept models ▪
Educational projects ▪

Ultimaker PVA Filament 2.85mm

(Ultimaker PVA (Polyvinyl Alcohol

As a water-soluble support material, Ultimaker PVA empowers engineers and designers to create highly detailed surfaces and complex moving mechanical parts in just one run. Coupled with the right build materials and our proven material profiles in Cura, Ultimaker's PVA opens up a whole new world of .opportunities for intricate designs and versatile applications

.PVA plastic spools come in 0.75kg or 0.35kg .2.85mm diameter

:Reasons to Choose Ultimaker PVA

Allows for the 2nd printing nozzle on the Ultimaker 3 to print dedicated dissolvable support •
Works with PLA and Nylon as a support material, not recommended with other materials due to • .adhesion differences
Allows for the printing of objects not previous possible on single extrusion printers •
Once dissolve, will not mar the finish on supported print surfaces •
Removing supports no longer requires a long and intensive removal process •
This formula is designed to work specifically with the Ultimaker 3 BB Print Core •
Good thermal stability resulting in better degradation resistance compared to other PVA • filaments
Less moisture sensitive than other PVA filaments •
Great adhesion to both PLA and Nylon •
(Safe dissolution in tap water (no harmful chemicals required •
Biodegradable with no hazardous by-products •