PrintaMent PRODUCT DESCRIPTIONS

HIPS

Description

HIPS (High Impact Polystyrene) is a filament usually used as support material for ABS and which can be dissolved in D'limonene. But HIPS is a very good filament on its own. You can make stunning prints with a beautiful matt surface finish. High Impact Polystyrene, as the name suggests, is a sturdy and reliable filament that is widely used among enthusiasts to create models of different sizes. It can be sanded, primed and painted. It offers limited warping, almost no shrinkage and is very easy to glue together with other parts.

Applications

- High impact applications
- Large models
- Support structures for ABS (dissolve with D'limonene)

Printing Settings

- Adhesion agent: UHU stick
- Printing temperature: 230-255°C
- Heated printbed: 75-110°C

Cheat sheets for major 3D printers can be found at: www.aprintapro.com/manual#PrintaMent

Additional Information

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M-ABS

Description

M-ABS (modified Acrylnitril-Butadien-Styrol-Copolymere) is strong, lightweight, extremely durable, and very impact resistant. It is ideal for special purpose 3D prints, toys and gadgets that benefit from extra strength. PrintaMent is manufactured with high quality raw materials and additives to produce a premium quality. M-ABS has low warping and less of an unpleasant smell than regular ABS.

Applications

- Prints that should be thermally stable in warm environments
- Toys and gadgets that need extra strength

Printing Settings
- Adhesion agent: PrintaFix
- Printing temperature: 225-250°C
- Heated printbed: recommended: 65°C

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METAL

Description
PrintaMent METAL is an 80% bronze filled PLA based filament which is easy to print, sand & polish. With this filament, you can create the most beautiful objects with real metal characteristics, such as a 3x higher weight then standard PLA, a metal touch & feel and thermo-conductivity. The filament can be printed on almost every type of FDM 3D printer available on the market with retraction enabled on nozzles ≥0.35 mm.

Due to the abrasive nature of metal, we recommend that you use a hardened steel nozzle with this filament. It will print very well with a regular brass nozzle too, but the wear and tear is higher and the risk for wearing out your nozzle increases.

Postprocessing
Postprocessing can make it look just like a cast molded model. When the print is done it looks almost like clay, but following techniques help to bring out that metal gloss: A rotary tumbler is the easiest way of handling the finished print. You can also use some fine grit sand paper (600) and polish your print to desired finish. Polish the model with sand paper and water. The longer you polish, the better the shine. You can finish with some metal polish for that perfect look.

Applications
- 3D prints with a metal look and feel

Printing Settings
- Adhesion agent: PrintaFix
- Printing temperature: 200-220°C
- Heated printbed: not needed when using PrintaFix

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PA12

Description

PA12 (Polyamid) is a high-performance polyamide filament. The polymer nylon PA12 is widely used in the automotive, machinery and engineering industry since it combines mechanical strength, flexibility, transparency, UV resistance and superior chemical resistance. PA12 is easy to print, has a high impact strength, even at low temperatures, a very high glass transition temperature and a low water absorption compared with other polyamides which leaves the mechanical properties unaffected. PA12 is the filament enabling you to print objects with a top performance.

Attention: PA12 filament needs to be dried for best 3D print results. A standard air-circulated oven is sufficient. A guideline for drying is 4-6 hours at 60˚C. To store it properly use an airtight container with a desiccant bag.

Applications
- Functional parts like hinges
- Flexible when thin but stiff and strong in large parts

Printing Settings
- Adhesion agent: UHU stick
- Printing temperature: 240°C-260˚C
- Heated printbed: 90°C-100°C

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PC

Description

PC (Polycarbonate) is a high-performance material which is very though, dimensionally stable and has a high impact- and heat-resistance. PrintaMent PC has a high optical clarity, a very good electrical resistance and a high toughness. PC is commonly used to make all sorts of products including bullet-

proof glass, riot shields, cellphone exteriors and many other products that require an engineering grade material. We recommend for PrintaMent PC just for experienced users because of its high melting point and high heated bed temperature necessary this material can´t be printed on every printer.

Printing Settings
- Adhesion agent: UHU Stick
- Printing Temperature: 240°C-260°C
- Heated printbed: 100°C-110°C

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PC-ABS

Description

PrintaMent PC-ABS (compound of Polycarbonate and Acrylnitril-Butadien-Styrol-Copolymere) has a higher impact resistance than regular ABS and is easier to print than regular PC so you get the best of both worlds. This is a consequence of the addition of an amount of polycarbonate in this modification, which also creates a nearly perfect interlayer adhesion. The above features, combined with a highly stable printing process makes PC-ABS the perfect material for mechanical parts and tools, which are to be light and strong and show minimal wear after prolonged use.

Flame Retardant Black is tested for to be flame retardant to the standard V0 with the UL-94 testing method (burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed).

Applications
- Mechanical parts

Printing Settings
- Adhesion agent: UHU stick
- Printing temperature: 240°C-260°C
- Heated printbed: 90°C-100°C

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PET-G

Description

PrintaMent PET-G (glycol modified Polyethylenterephthalat) is an extremely robust material. It is non-toxic and develops no unpleasant smell during the printing process. PET-G is modified so that it has an even higher clarity, stiffness and toughness than regular PET. PET-G is a hydrophobic filament (i.e. it it does not absorb water). The transparent colors have a high gloss and result in an almost completely transparent print, depending on your shell count, speed and heat settings. The solid colors offer a vivid and beautiful surface with a high gloss finish. PrintaMent PET-G is FDA approved and can be used in applications with food contact. This material is very versatile and can be used for a lot of different shapes and use cases, such as transparent light objects orhigh impact applications.

Applications

- Universally applicable for a wide variety of prints
- Stronger and more durable than ABS but as easy to print as PLA
- Transparent colors for translucent 3D prints

Printing Settings

- Adhesion agent: PrintaFix
- Printing temperature: 220°C-245°C
- Heated printbed required: 65°C-75°C

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PET-G CF20

Description

PrintaMent PET-G CF20 (carbon reinforced PET-G) is extremely stiff, very impact resistant and has a higher heat resistance than regular PET-G. This, together with other features, such as a matt surface, low warping, dimensionally stable and extremely forgiving to print, makes this filament suitable for a very wide variety of applications besides the typical RC parts, drones, automotive parts and more.

Please consider the use of a hardened steel nozzle when printing with PET-G CF20. The carbon fibers are abrasive and will result in a faster wear of regular brass nozzles. PET-G CF20 can be used on all common desktop FDM or FFF technology 3D printers.

Applications
- RC, droneparts that require stiffness and high impact resistance
- Mechanical applications

Printing Settings
- Adhesion agent: PrintaFix
- Printing temperature: 220°C-245°C
- Heated printbed required: 65°C-75°C

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PVA-M

Description
PrintaMent PVA-M (Modified PolyVinyl Alcohol) is a water-soluble support material. PVA-M prints are translucent with a slightly yellow tint. PVA-M is more stable to print with than regular PVA. It bonds significantly better than regular PVA with PLA and PET-G.

Applications
Printing Settings
- Adhesion agent: PrintaFix
- Printing temperature: 190°C-205°C
- Heated printbed: 60-70°C

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PLA

Description

PLA (Polylactic acid) is a biodegradable 3D printing material which is non-toxic and develops no unpleasant smell during printing. PrintaMent PLA is produced from high quality raw materials and well-matched additives resulting in a good interlayer adhesion, low shrinkage and a stable adhesion to the printbed. The formulation also makes the filament less prone to absorbing moisture. PrintaMent PLA is easy to use with all FDM/FFF printers and has a slight shine to its appearance when the print is done.

Applications

- Everyday prints with no special requirements
- Easy to print objects

Printing Settings

- Adhesion agent: PrintaFix
- Printing temperature: $190°C$-$210°C$
- Heated printbed: not needed when using PrintaFix

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SEMIFLEX

Description

PrintaMent SEMIFLEX is a strong, clear and flexible filament. These characteristics, together with the high degree of gloss, very low water absorption, practically no shrinkage or warping and very good interlayer adhesion makes it a very special filament. The material is a diverse filament that can be used for many applications.

Printing Settings

- Adhesion agent: UHU stick
- Printing temperature: $240°C$-$260°C$
- Heated printbed: $70°C$-$90°C$

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TCH-PLA

Description

TCH-PLA is a tough, easy to use high grade color changing PLA type of filament. The dark grey color will change to natural above 29°C, but much faster above 33°C or higher. Other features are a result of the enhanced PLA ground component. Hence TCH-PLA is tougher and less brittle than a regular PLA. Due to the low shrinkage factor PLA will not deform after cooling.

Applications

- Changes color from grey to natural above 29°C

Printing Settings

- Adhesion agent: PrintaFix
- Printing temperature: 190°C-220°C
- Heated printbed: not needed when using PrintaFix

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WOOD

Description

PrintaMent WOOD (wood filled PLA) is an easy to print filament with great optics, haptics and smell. Due to the high content of wood, PrintaMent WOOD is very easy to post process with e.g. sanding and varnishing. For PrintaMent WOOD we recommend a printbed coated with PrintaFix and a nozzle with at least 0.5mm. Attention: due to the high wood content, this material is very abrasive and should be printed with a hardened nozzle, otherwise your brass nozzle will wear out very quickly.

Applications

- 3D prints with a look and feel like wood
- 3D prints that you want to sand and postprocess

Printing Settings

- Adhesion agent: PrintaFix
- Printing temperature: 200°C-215°C
- Heated printbed: not needed when using PrintaFix

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