NEW PRODUCTS

1. **Filament mate** P.8
   An amazing tool to solve problems, like suspension, water absorption and dust accumulation, relating to filament.

2. **The solution to lamps and luminous letters** P.18–22
   A raft of materials that help you provide various lamps for commercial purposes

3. **ABS^{P}7 Paint-free** P.41
   Strong metallic effect and smooth surface

4. **Enterprise series** P.43–48
   Truly high performance material, either before or after printing

5. **Prome™** P.49–56
   Washable photopolymer resin

kexcelled

3D PRINTING

photopolymer resin | filament | accessory

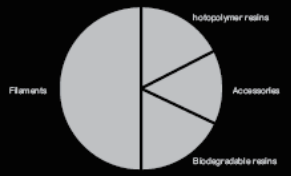
2019 Product Catalog

About us

kexcelled

From 2013

10 high precision automatic production lines



Focusing on development and production of 3D printing materials, we are deducted to meeting growing requirements of customers for product quality and performance.
Our products are classified to four categories, i.e., 3D printing filaments, photopolymer resins, high performance biodegradable resins and 3D printing accessories.

We are a professional manufacturer of 3D printing materials. We adhere to innovation as well as improvement of product quality and stability.

- 100,000 kg/month, product quality control system of the highest standard among peers.
- Hatchbox is among the most welcomed brands on Amazon.com.
- State-of-the-art manufacturing process supports filaments whose diameter tolerance is within ±0.01-0.03 mm.
- Customized color is available in 48 hours after your order.
- RoHS certification
- Printing test is provided on a 24/7 basis to ensure continuous printing stability

Global customers: China, North America, Netherlands, Germany, UK, South Korea, Singapore and others

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New Products

Filament Mate™

1.Filament spool holder 2. Waterproof 3. Dustproof

List of materials pre-installed before shipment

PVA^{k}7 | PET^{c}10 | PA^{6}10 | PA^{6c}12 | PA^{12}10 | PA^{12c}10 | PEEK^{k}10 | PEEK^{g}11 | PEEK^{c}12

Colors

White Natural Yellow Skin Light Orange Orange Pink Red Purple Light Green

Cyan Green Grass green Sky blue Grey blue Bluish green Baby blue Lake Blue Peacock blue Dark Green

Blue Light purple Royal purple Light brown Copper Gold Dark yellow Brown Bronze Chocolate

Black Gray Silver Fluorescent Yellow Fluorescent Red Fluorescent Green

36 solid colors

Clear White Clear Yellow Clear Orange Clear Red Clear Purple Clear Green Glass green Clear Blue Clear Black

9 clear colors

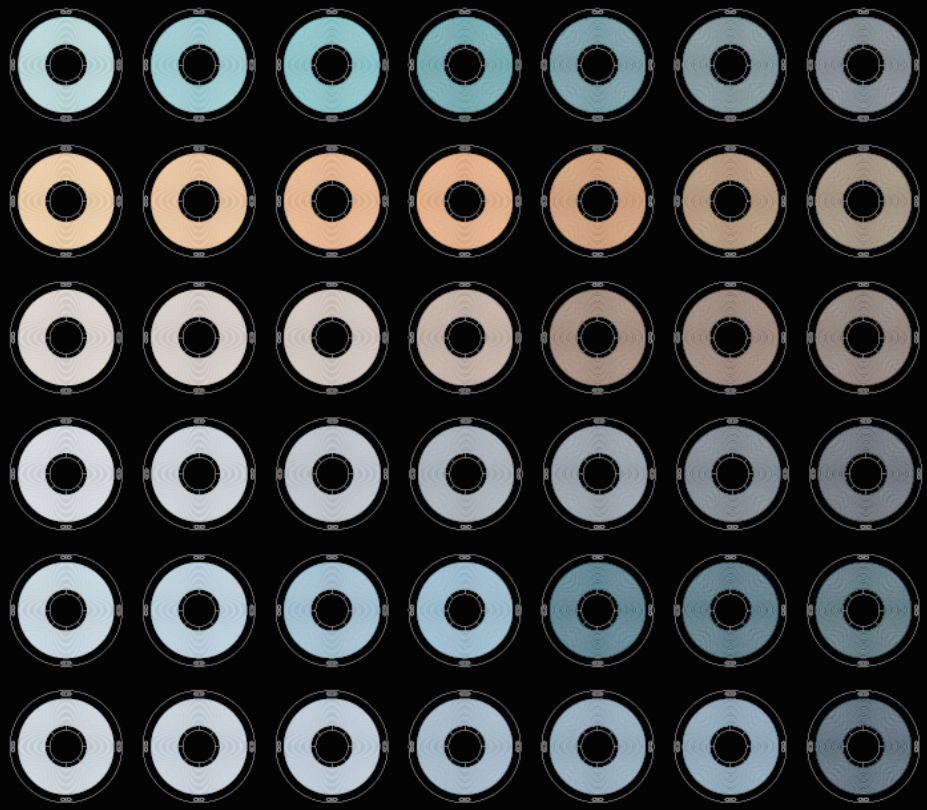
Noctilucent Red Noctilucent Grenn Noctilucent Blue

3 noctilucent colors

Natural Pink Blue Green Bronze Gold Copper Silver Black

9 silk colors

Customized Colors



RAL CLASSIC

PANTONE THE POWER OF COLOR

kexcelled color technology

1. Customized colors under Pantone and RAL cards are available in 48 hours after your order.
2. Minimum order 2kg
3. Place an order for your unique color now!

Packaging

PD1: 5.5cm
PD2: 20cm
H: 7cm
N.W.: 1kg

L: 21cm x W: 21cm x H: 7.2cm
G.W.: 1.5kg

3 units L: 22cm x W: 23cm x H: 22cm
G.W.: 5.5kg
5 units L: 38cm x W: 23cm x H: 23cm
G.W.: 5.5kg
10 units L: 45cm x W: 38cm x H: 23cm
G.W.: 15.1kg

Customize your spool packages on our website:
http://www.kexcelled.nl/customize-your-spool

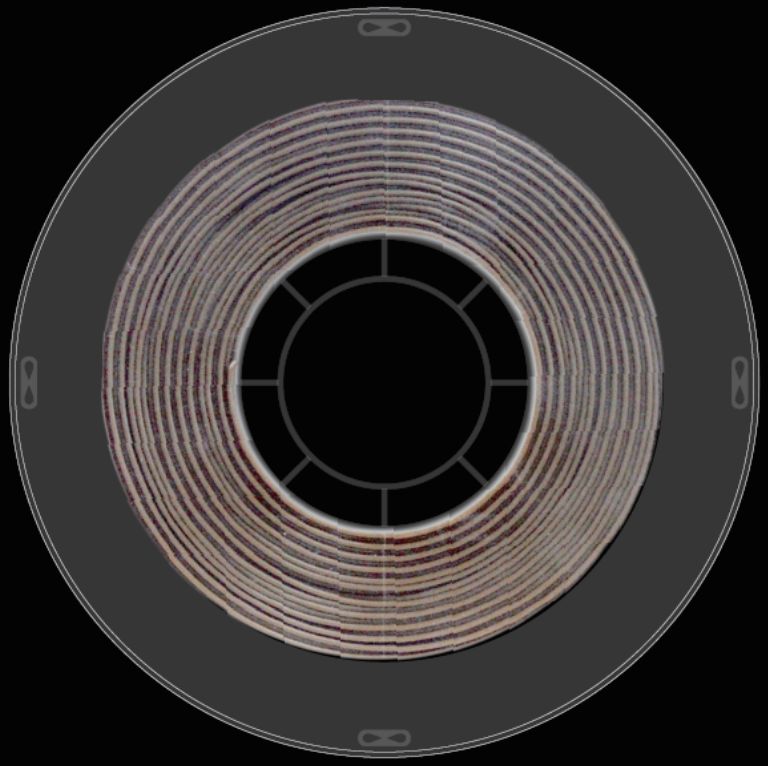
1.75mm 2.85mm 3.0mm

five spool specifications

customized packages

Contents

(in the series order)



kexcelled filament arrangement technology

1. 100% in alignment
2. No warp caused by filament overlapping for better printing quality
3. Farewell to annoying filament twists and printing failures caused thereby for more successful printing

PLA^{k}5

Features:
PLA^{k}5 is an affordable PLA material widely used in various mainstream printers, with outstanding comprehensive performance. With improved toughness and fluidity, it provides wide temperature and speed ranges and is suitable to fast printing and printing of large-sized models. Printed work pieces have flat and smooth surfaces that are warp-resistant.

Specifications:
Weight: 0.5kg 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
36 solid colors and 3 noctilucent colors
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 190-220°C
Platform temperature: 30-60°C
Printing speed: 40-100mm/s

Recommended Application:
General models, models of various sizes and fast printing

Display:

kexcelled Basic

PLA^{t}6

Features:
PLA^{t}6 is a highly transparent PLA material that presents high environmental friendliness and printability,features that ordinary PLA has, and suitable to smooth or translucent models. Special process change not only makes PLAt6 highly translucent but also improves filament toughness.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø 1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
9 transparent colors
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 210-230°C
Platform temperature: 30-60°C
Printing speed: 40-80mm/s

Recommended Application:
Indoor ornaments, e.g., vases, lamp covers and other art pieces.

Display:

ABS^{k}5

Features:
ABS^{k}5 is an easily printed and highly cost effective ABS filament, which mitigates warp and crack problems that often occur to conventional ABS materials and retain good mechanical properties of ABS materials. In addition, it gives off a lighter odor, shows a smaller shrinkage and requires a lower printing temperature, making your printing process easy, efficient and interesting.

Specifications:
Weight: 1Kg 3kg 5kg
Filament diameter: Ø 1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
36 solid colors and 3 noctilucent colors
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 220–250°C
Platform temperature: 80–100°C
Printing speed: 40–80mm/s

Recommended Application:
Models and parts which are high temperature resistant and impact resistant; general models are of course out of question.

Display:

ABS^{t}6

Features:
ABS^{t}6 is a highly transparent ABS material, presenting amazing shaping effect and good light transmittance, and therefore suitable to translucent models. Work pieces printed with this material are also tough and heat-resistant. It is your ideal choice for printing a translucent model.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø 1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
9 transparent colors
Other weights/colors/diameters are customizable

Parameters:
Printing temperature :240–260°C
Platform temperature: 80–100°C
Printing speed: 40–80mm/s

Recommended Application:
Indoor ornaments, e.g., vases, lamp covers and other art pieces, and other objects that are more high temperature resistant than PLA^{t}6.

Display:

PETGk5

Features:

In addition to its outstanding toughness, durability and high translucence, PETGk5 is highly printable, a feature that is comparable to PLA, and also a good contact material. This makes it the best choice for making functional prototypes and food contact products. If you want a material that is more durable and heat resistant than PLA and as easy as PLA, PETGk5 is what you are looking for!

Specifications:

Weight: 1kg 3kg 5kg
Filament diameter: Ø 1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
9 colors, which are transparent, white, silver, yellow, orange, red, purple, green and black.
Other weights/colors/diameters are customizable.

Parameters:

Printing temperature:240–260°C
Platform temperature: 70–80°C
Printing speed: 40–80mm/s

Recommended Application:

Most models that can be printed with PLA, models that require higher temperature (lower than 70°C), and objects such as vases, lamp covers, food molds, etc.

Display:

kexcelled

3D printing solutions to lamps
and luminous letters

3D printing solutions to lamps and luminous letters

Introduction

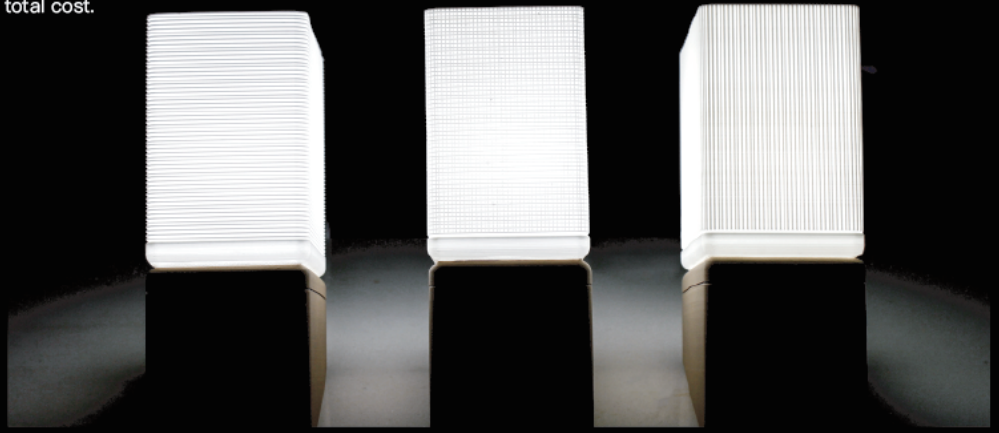
Advertising and decoration fields never stop their pursuit of eye-striking objects. Luminous objects have been playing a critical role in advertising and decoration. The use of 3D printing technology in lamps and luminous letters has become a new direction for the technology's implementation. Having exerted great efforts, Kexcelled provides a complete range of 3D solutions to use and printing various lamps and luminous letters such 3D printing of luminous objects becomes much faster. Free from environmental pollution, these solutions are especially outstanding in customized objects. Kexcelled luminous series covers a basket of practical projects for printing and using lamps and luminous letters. Polyester materials are exclusively used for these solutions. A raft of polyesters with different softening temperatures and weatherproof performances are designed for diverse indoor and outdoor applications.

New processes

In recent years, various 3D printing solutions have replaced some and also extended many traditional processes. In terms of short-term manufacturing and fast prototype delivery, 3D printing is a marvelous money saver. With high performance materials, it provides new ways for creating complicated and imaginative parts. One of the best applications for 3D printing lies in customized lamps and luminous letters 3D printing is uniquely superior in making delicate luminous products and fast delivery.

Highlights of new processes

Compared with conventional making processes, 3D printing is unrivaled in design and making periods. The ultimate goal, however, is to combine 3D printing with conventional processes by employing their advantages.
1. Design: Processing methods are not considered in 3D printing design for which, structures and materials can be selected in a broader range.
2. Production cycle: Short product development cycle ensures that samples can be delivered in a much shorter period.
3. Product customization: 3D printing solutions are more appropriate for household decorations or personalized venue decorations.
4. Cost control: No tooling is required for making a small amount of lamps, an advantage that can save the total cost.



kexcelled Solutions

New materials

Kexcelled never stops its pursuit of new materials. In this regard, it has developed a complete set of luminous products used for 3D printing:

• Highly transparent materials

In order to print objects that must be translucent, Kexcelled provides many transparent materials, e.g., PETG^{k}5, PETG^{h}7, PC^{k}7 and PLA^{t}6, whose light transmittance is higher than 90%. Many layers are stacked in 3D printing. This many slightly reduce the light transmittance of printed works. To mitigate this problem, we recommend print heads of larger than 0.6mm.

PETG^{k}5 transparent P17 | PETG^{h}7 transparent P28 | PC^{k}7 transparent, transparent grey P33
PLA^{t}6 transparent, transparent yellow, transparent red, transparent orange, transparent green, transparent blue, transparent grey and so on.

• Semitransparent materials

Decorative lamps are indispensable for the decoration and lighting effect of entire space when designers plan to decorate households and various venues. Translucent materials are advantageous to many featured designs.

PETG^{k}5 P17 White, Red, Yellow, Grey, Blue, Green, Orange and so on| PLAk5 36 Solid colors (excluding brown and matte black) P17

• Shading materials

In addition to transparent materials that allow light to pass through, Kexcelled provides many shading materials in white, black and other colors, which can shade light when they are 0.8mm thick at a minimum.

PETG^{k}5-SHADE White P21 | PETG^{k}5 Black P17 | PLA^{k}5 Black P10

• Light diffusion materials

Kexcelled has developed light diffusion materials that have higher illumination effect and can be used for printing lighting fixtures. Based on transparent materials, these diffusion materials increase light scattering and transmission and shade light sources. Shaded light sources can give off soft lights, creating a comfortable and opaque effect, but light can pass through materials.

PETGk5-DIFFUSE Transparent white

PETG^{k}5–SHADE

Features:
PETG^{k}5–shade is a type with light shielding effect among PETG5k series. In white color, this product performs outstandingly in light shielding while inheriting the high toughness and easy for printing from PETG materials. When used in printing product of 0.8 mm thick, it can totally shield the light, which makes it the unrivaled choice for printing luminous characters and products for which lights are to be shielded.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: white
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 215–235°C
Platform temperature: 40–60°C
Printing speed: 40–80mm/s

White

Recommended Application:
Printing light–shading objects, in particular luminous letters in advertisement and lamp covers.

Display:

kexcelled Basic

PETG^{k}5—DIFFUSE

Features:
PETG^{k}5–diffuse is a type of products with light diffuse effect among PETG^{k}5 series. In semi–translucent white, this product performs better in light diffusion than common translucent PETG, while inheriting the high toughness and easy for printing from PETG materials. When used in printing luminous products, it makes the light softer without compromising the luminous intensity.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: transparent white
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 225–245°C
Platform temperature: 70–80°C
Printing speed: 40–80mm/s

Clear White

Recommended Application:
LED diffusion products, especially LED luminous letters and lighting components of lamps

Display:

PA¹5

Features:
PA¹5 is a low temperature nylon filament that spares the use of heated bed in printing and supports almost all FDM/FFF 3D printers. Printing with PA5 is as easy as printing with PLA. Similar to PP/PE in all aspects, PAI5 has a smaller specific weight, excellent toughness and good solvent resistance and chemical resistance. It can be used as an alternative of PP/PE in practice.

Specifications:
Weight: 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
3 colors, which are natural, black and white
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:190–210°C
Platform temperature: 30–60°C
Printing speed: 40–80mm/s

Natural White Black

Recommended Application:
Products for which good toughness is required or which may contact with oil or common chemical regents; such as pipes and containers.

Display:

kexcelled Basic

HIPSᵏ5

Features:
HIPSᵏ5 is a supporting material that is completely dissoluble in limonene, an easily printed PS filament that shows high performance and great impact resistance, and free from any added colorant. Printing process with this filament is pretty smooth and gives rise in products with high smooth surface. With thermal properties similar to these of ABS, it is a great supporting material used in multi-head printers.
When not act as a supporting material, HIPS is also a high performance printing filament with great surface smoothness and good impact resistance.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: natural
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:230–250°C
Platform temperature: 60–80°C
Printing speed: 40–80mm/s

Natural

Recommended Application:
Support printing processes where ABS, PETG and other materials are used as filaments; or act as an ABS-like filament

Display:

PLA^{s}7.1

Features:
As an upgraded high toughness PLA material, PLA^{s}7.1 presents amazing toughness when used for either injection molded products or printed products. Impact strength of injection molded products is 10 or more times higher than raw material. Un-notched impact strength and notched impact strength of printed products is respective 3 times and 6 times higher than raw material. On top of that, zero-warp and high inter-layer bonding, which are presented in PLA printing is perfectly retained. In addition to general models, this material can be used to print structural parts and other functional models.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
8 colors, which are natural, white, black, grey, blue, green, red and purple.
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 200-230°C
Platform temperature: 30-60°C
Printing speed: 40-80mm/s

Recommended Application:
PLA^{s}7.1 is applicable to any model to which conventional PLA is suitable and is recommended for products for which high toughens is required.

Display:

kexcelled Professional

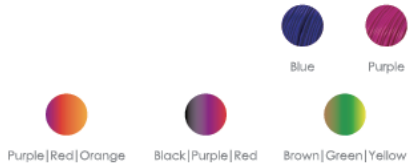
PLA^{clr}8

Features:
PLA^{clr}8 is a filament series that feature magic color changes and includes three categories.
(1) Temperature-varying: It is a PLA filament whose color changes with temperature between 0°C and 55°C, a property that injects life to models printed with it because these models take on colors by sensing ambient temperature.
(2) Light-varying: It is a PLCA filament which can present a certain color when exposed to UV light, enabling us to be more creative under more situations.
(3) Rainbow: This filament shows a bright color for a segment along its length and another for the next segment and so forth. This makes printed products have several colors rather than a single color or two colors.

Specifications:
Weight: 0.5kg 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
Temperature-varying: purple| red| orange |black |brown |green |yellow; light-varying: blue, purple
Rainbow: filament diameter: 1.75 mm; weight: 0.5kg; 3~5 different colors
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:190-220°C
Platform temperature: 30-60°C
Printing speed: 40-100mm/s

Recommended Application:
Particular occasions or creative products



Display:

PLA^{txt}8.2

Features:

PLA^{txt}8.2 is a series that features a special texture and visual effect. It is designed to enable printed works that are not processed to be highly artistic and attractive.
PLA^{txt}8.2 is developed on the basis of PLAk5 and PLAt6, two excellent series that are well welcomed. In this way, it has inherited the stability and applicability.

PLA^{txt}8.2—Magic

Category introduction:

Spots which are different from ordinary PLA colors are shown on works printed with PLA^{txt}8.2–Magic and present a surface effect that resembles natural rocks. Architectural models, scenic layouts or artistic works such as sculptures and ornaments, if printed with this material, are definitely more vivid. Magic means it brings you about a magically colorful visual world.

Specifications:

Weight: 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
8 colors, which are magic black I, magic black II, magic green, magic brown, granite I, granite II, brick red and cement grey
Other weights/colors/diameters are customizable.

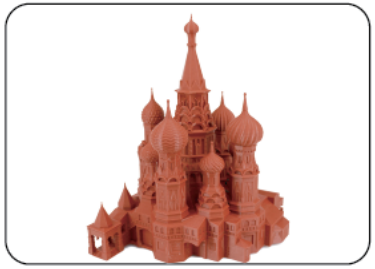
Parameters:

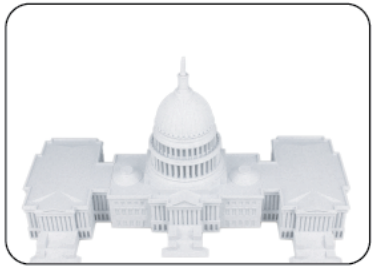
Printing temperature:200–220°C
Platform temperature: 30–60°C
Printing speed: 40–80mm/s

Recommended Application:

Architectural models, household sanitary models, scenic layouts and sculptures.

Display:





kexcelled Professional

PLAtxt8.2—Sparkle

Category introduction:
Sparkle series includes specially made opaque or semi-translucent linear materials. These linear materials or worked printed with them show sparkling effect like stars. Under lights, the printed works give more fun and artistic feeling. With this series, the fanciful wonderland in the dreams of little boys and girls is easily accessed.

Specifications:
Weight: 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
7 colors, which are sparkle black, sparkle grey, sparkle blue, sparkle Mazarine, sparkle yellow, sparkle green and sparkle red
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:200-230°C
Platform temperature: 30-60°C
Printing speed: 40-80 mm/s

Recommended Application:
Ornaments, artistic works and toys.

Display:

kexcelled Professional

PETG^{h}7

Features:
PETG^{h}7 is a PETG material with much higher performance. Compared with PETGk5, PETGh7 are more excellent in mechanical performance and high temperature resistance. Food contact property allows it to contact food that is up to 100 ℃ in a safe and reliable manner. These properties make PETGh7 more versatile in 3D printing and applicable to household products such as table ware, food molds and ovens.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: transparent
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:250-270°C
Platform temperature: 80-100°C
Printing speed: 40-80 mm/s

Recommended Application:
Products which are resistant to 100°C or so.

Display:

PLA^{silk}9

Features:

PLA^{silk}9 is a silk-like PLA whose glossiness and impact resistance are improved when compared to congenital PLA. Both filaments and printed works are gloss like silk. Its impact strength is improved by more than 30%.
While bearing the good printing performance from conventional PLA, this product gives off no irritating odor, is easy for printing and shows strong inter-layer bonding force.

Specifications:

Weight: 0.5kg 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
9 colors, which are silk white, silk blue, silk green, silk red, silk gold, silk silver, silk black, silk antique brass and silk bronze
Other weights/colors/diameters are customizable.

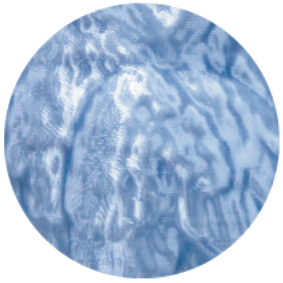
Parameters:

Printing temperature:210-230°C
Platform temperature:Normal-60°C
Printing speed: 40-80 mm/s

Recommended Application:

Structural and functional products, or ornamenting models and crafts that require high quality.

Display:



kexcelled Professional

PETG^{m}8

Features:
Adding a certain ratio of metallic powder to PETG produces PETG^{m}8 series filaments. Printed works, once polished, present vivid metallic appearance and texture. This material's specific weight is 2.0 ~ 2.5 folds of PETG's.

Specifications:
Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
3 materials, which are bronze, antique brass and stainless steel
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:240–260°C
Platform temperature:70–80°C
Printing speed: 20–50mm/s

Recommended Application:
It is recommended to be used for printing sculptures and ornaments; printed works perfect manifest the aesthetics of ancient simplicity, elegance and modern technology. Models of metallic parts printed with this material are also distinctive.

Display:

kexcelled Professional

PCᵏ7

Features:
PCᵏ7 is a professional PC filament suitable to desktop FDM/FFF 3D printers. It is able to relieve warping and poor inter-layer bonding, problems that often occur when PC is used in desktop printers and therefore suitable to models or structural parts that are strong or heat resistant.

Specifications:
Weight: 1kg 3kg 5kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
8 colors ,which are white, red, green, blue, grey, black, transparent and transparent black
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:250-270°C
Platform temperature:80-100°C
Printing speed: 40-80mm/s

Recommended Application:
Mechanical parts, load-bearing structures or enclosures that have high strength or good heat resistance.

Display:

kexcelled Professional

PVAᵏ7

Features:
As an efficient supporting material that is highly dissoluble in cold water, PVAᵏ7 is less sensitive to moisture; Exposure to an environment where relative humidity is 50% for several days will not decrease its printing performance. Also, PVAᵏ7 can be well-bonded with PLA, PETG and ABS filaments, making it an excellent supporting material that goes with multi-head printers. This filament is transparent and dissoluble in water, a property that eliminates pollution, and gives off no toxic substance or any odor in printing process.

Specifications:
Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: natural
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:190-215°C
Platform temperature: 30-60°C
Printing speed: 20-60mm/s

Recommended Application:
Used as a supporting material in multi-head printers which are producing complicated products; go with many filaments including PLA, PETG and ABS.

Display:

PVB^{k}7

Features:
Existing FDM/FFF printers can barely overcome appearance and quality problems caused by layer lines. As a modified polyvinyl butyral, PVB^{k}7 can be polished with alcohols, leading to smooth and gloss finish. This becomes a brand new solution to layer lines. Furthermore, PVB^{k}7 is much more easily polished and similar to PLA in terms of printability and mechanical properties, which means it matches almost all printers available in market. Polished products can go with propylene and other dyes for making prototypes.

Specifications:
Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
8 colors, which are natural, white, grey, black, red, yellow, sky blue and light green
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:190–210°C
Platform temperature:Normal–60°C
Printing speed: 40–80 mm/s

Recommended Application:
Used for printing products for which surface quality is underscored, in particular, making prototypes or casting.

Display:

kexcelled Professional

ASA^{k}7

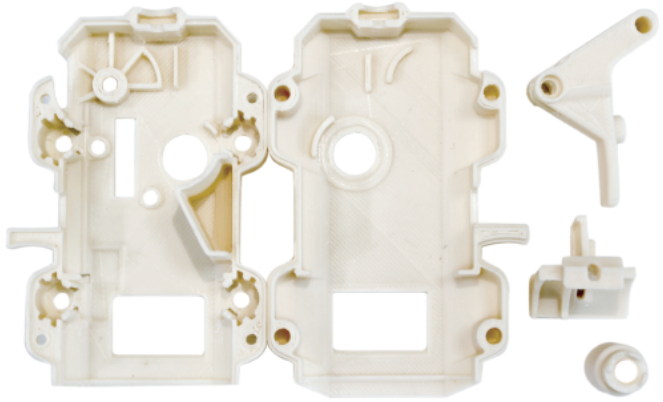
Features:
Similar to ABS, ASA^{k}7 has good toughness and thermal resistance and outstanding aging-resistance which makes it more suitable to long-term outdoor and high-temperature uses.

Specifications:
Weight: 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
3 colors, which are natural, black and white
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:240–260°C
Platform temperature:80–100°C
Printing speed: 30–60mm/s

Recommended Application:
Used for printing models and parts that require a certain thermal resistance and impact strength, for example, exterior car decorations and outside unit enclosures for air conditioners.

Display:



WOOD^{k}7

Features:
WOOD^{k}7 is made of PLA to which a certain ratio of wood powder or wood filers are added. Printed works present a vivid wood effect.

Specifications:
Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
3 colors, which are yellow wood, black wood and brown wood
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature:190–220°C
Platform temperature:30–60°C
Printing speed:40–80mm/s

Recommended Application:
Used for printing wooden models or ornaments

Display:

kexcelled Professional

TPU^{k}7

Features:
TPU^{k}7 is a high performance filament made of soft polyurethane and applicable to local printers and a part of remote printers available in market. With a hardness of 95A, it is an easily printed soft filament and has good elasticity and substrate stability. With proper printing parameters, it is highly transparent and excels in mechanical properties.

Specifications:
Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
6 colors, which are white, yellow, red, green, blue and black
Other weights/colors/diameters are customizable.

Parameters:
Printing temperature: 210–230°C
Platform temperature: 60–80°C
Printing speed: 40–80mm/s

Recommended Application:
Used for making soles, insoles, soft pendants, mouse pads and footwear accessories, models that need elasticity.

Display:

ABSp7 Paint-free

Features:

In traditional plastic shaping, painting is an important post-treatment to enable beautiful appearances of plastic products; however, it presents several weaknesses, i.e., increased product cycle and labor costs, as well as environmental pollution which brings about negative impacts on working environment and health.
ABSp7 makes painting becomes unnecessary. With easy polishing, the printed works can show the same smooth and clean surface as the painted ones. With adjusted printing parameters, the printed works may also have sanded surfaces instead of painted surfaces. ABSp7 color series enables metallic paint effect for which, acetone or the safer polish liquid provided by our Company may be used to polish the printed works within several minutes.

Specifications:

Weight: 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
6 colors, which are silver, champagne gold, blue, brown, dark green and black
Other weights/colors/diameters are customizable.

Parameters:

Printing temperature: 220–250°C
Platform temperature: 80–100°C
Printing speed: 30–60mm/s

Recommended Application:

Used for electrical appliances, electronic parts and auto parts, such as exterior car decorations and casings of home appliance and electronic components. It can be either directly printed or polished before printing for different effects.

Display:

kexcelled Professional

PET^{c}10

Features:

PET^{c}10 is a carbon-fiber reinforced PET material which therefore gets the general properties of carbon-fiber reinforced materials, such as high rigidity, high hardness, relatively high strength and wear-resistance. This material can be defined as an entry-level high performance FDM linear material, which is due to its ease for printing rather than performance inadequacy. Unlike most PA/CF materials which absorb water easily, this material does not block the print head and therefore requires no demanding printing conditions. You can easily print with this high performance material. If ordinary ABS and PETG are not satisfactory, PET^{c}10 is likely your choice.

Specifications:

Weight: 0.5kg 1kg
Filament diameter: Ø 75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: black
Other weights/diameters are customizable.

Parameters:

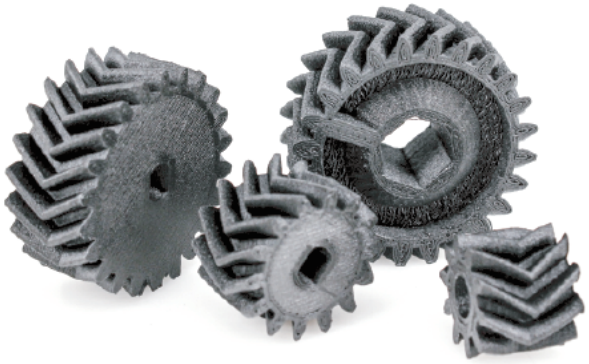
Printing temperature:270-300°C
Platform temperature:70-100°C
Printing speed:40-80mm/s

Black

Recommended Application:

Used for printing products that bear forces (products should not be deformed when bearing forces) or that are used in high temperature (60-100°C) for a long-term, such as gears and other force-bearing enclosures.

Display:



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PA^{6}10

Features:

PA^{6}10 is a high temperature FDM consumable material in which PA6 is the substrate. In addition to high toughness, wear-resistance and oil-resistance, characteristics that are commonly shared among traditional PA6 materials, this material enables the printed work to be strong and relatively dense such that outstanding surface quality is ensured and easily solves warping problem that often occurs during printing process. In this way, the printed works gives better play to the intrinsic properties of this material.

Specifications:

Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
2 colors, which are black and natural
Other weights/colors/diameters are customizable.

Parameters:

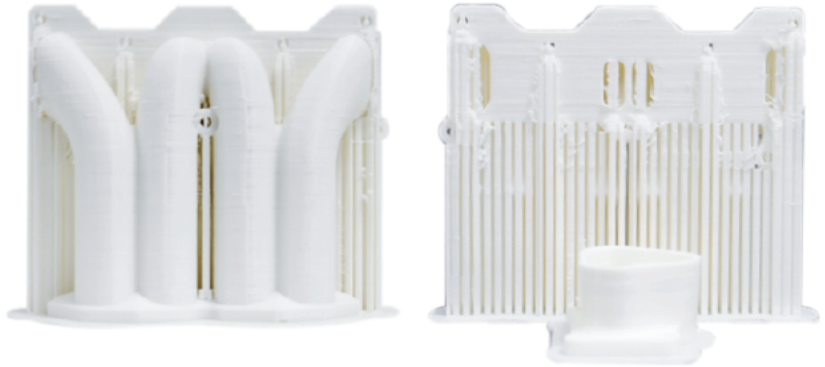
Printing temperature:250-280°C
Platform temperature:70-100°C
Printing speed:40-80mm/s

Natural Black

Recommended Application:

Used for printing products that are commonly made of nylon, such as blades, nuts, oil-resistant containers, washers, car exterior ornaments and parts installed around engines.

Display:



PA^{6c}12

Features:

PA^{6c}12, a carbon-fiber reinforced nylon with PA6 as the substrate, has extremely high strength and rigidity such that the tensile strength of printed work can be higher than 100 MPa, with an ideal printer and printer settings, which can reach 140 MPa and such that the temperature of a constantly used printed work can be up to 150℃. These excellent thermal and mechanical properties make the printed works with this materials can replay metallic pars in many occasions to realize the “plastics used as replacements of steels". This is one of the best choices for lightweight 3D printing. Wear-resistant print heads are commended.

Specifications:

Weight: 0.5kg 1kg
Filament diameter: Ø1.75mm Ø2.85mm Ø3.0mm
Tolerance: ±0.03mm
1 Color: black
Other weights/diameters are customizable.

Parameters:

Printing temperature:270-300℃
Platform temperature: 80-100℃
Printing speed:30-60mm/s

Black

Recommended Application:

Used for printing wear-resistant or high strength parts in automobiles or machines.

Display:

kexcelled Enterprise

PA^{12}10

Features:

PA^{12}10 is a high temperature FDM consumable material in which PA6 is the substrate. In addition to high toughness, wear-resistance and oil-resistance, characteristics that are commonly shared among traditional PA6 materials, this material enables the printed work to be strong and relatively dense such that outstanding surface quality is ensured and easily solves warping problem that often occurs during printing process. In this way, the printed works gives better play to the intrinsic properties of this material.

Specifications:

Weight: 0.5kg 1kg
Filament diameter: Ø 1.75mm Ø 2.85mm Ø 3.0mm
Tolerance: ±0.03mm
1 Color: natural
Other weights/colors/diameters are customizable.

Parameters:

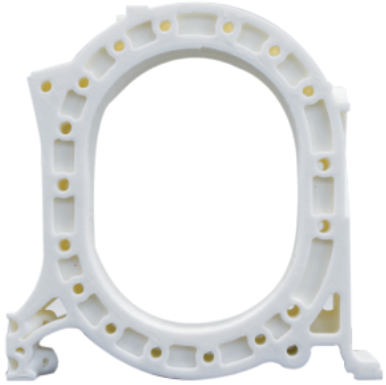
Printing temperature:240-270℃
Platform temperature: 60-80℃
Printing speed:40-80mm/s

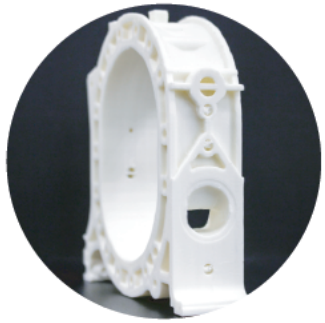
Natural

Recommended Application:

Used for products which are made of PA12 or PA6.

Display:





PA^{12C}11

Features:
PA^{12c}11, a carbon-fiber reinforced nylon with PA12 as the substrate, has low water-absorption and significantly increased strength, rigidity and thermal deformation temperature. Requiring no special printer, this material can function excellently on common printers that have platform-heating structure. With this material, you can easily print various highly strong nylon parts. Wear-resistant print heads are recommended.

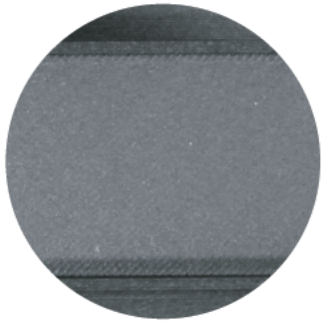
Specifications:
Weight: 0.5 kg 1 kg
Filament diameter: Ø 1.75 mm Ø 2.85 mm Ø 3.0 mm
Tolerance: ±0.03 mm
1 Color: black
Other weights/diameters are customizable.

Parameters:
Printing temperature:250-280°C
Platform temperature:70-100°C
Printing speed:40-80 mm/s

Black

Recommended Application:
Used for light parts that are oil resistant, wear resistant or highly strong, such as gears, sports devices, bars or enclosures in bikes or automobiles for weight reduction purpose.

Display:



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PEEK^{k}10

Features:
PEEK^{k}10 is a PEEK material that is ideal for FDM technique. As a representative of special materials, it is excellent in mechanical properties and thermal-resistance, self-extinguishing, resistant to most chemicals and solvents, radiation-resistant and highly bio-compatible. In addition, the strength of Z axis of work printed with this material is higher than the majority PEEK products available in the market.
There, so many benefits together makes this PEEK material suitable to print both precise electronic components and special parts that are required to be high-temperature resistance and fire-retardant, as well as some medical facilities. It can be concluded that PEEKk10 is able to satisfy most applications where plastics are used.

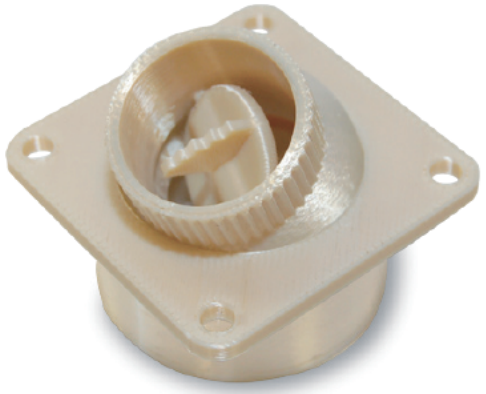
Specifications:
Weight: 0.5 kg 1 kg
Filament diameter: Ø 1.7 5mm Ø 2.85 mm Ø 3.0 mm
Tolerance: ±0.03 mm
1 Color: natural
Other weights/colors/diameters are customizable.

Natural

Parameters:
Printing temperature:400-450°C
Platform temperature:100-120°C
Printing speed:30-60mm/s

Recommended Application:
Electronic components, seals, nuclear energy and medical care.

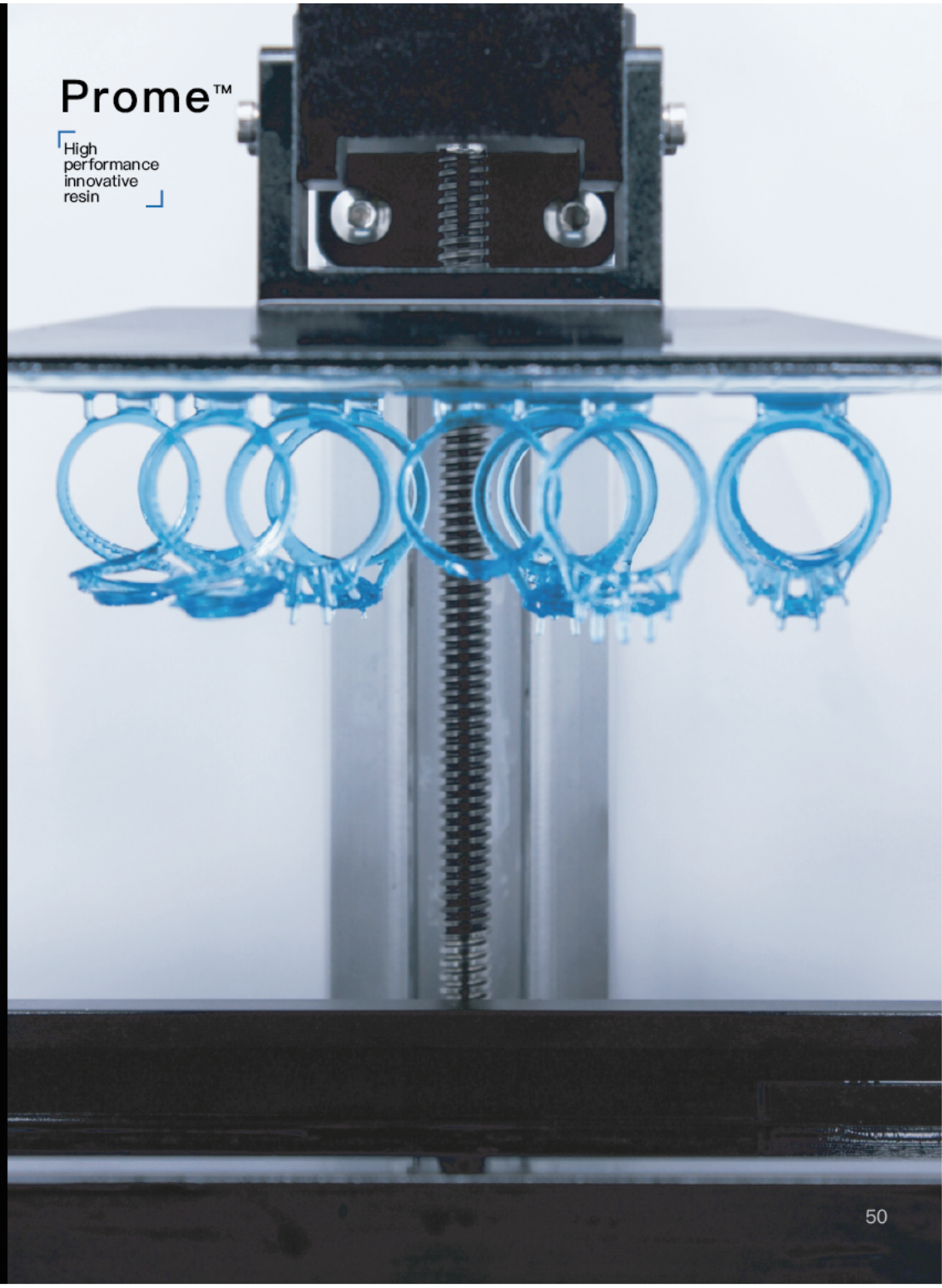
Display:



Prome™

Just give me light, I will not fear to go forward.

High performance innovative resin



Prome™ S6100 Standard Resin

Features:

Prome S6100 is a type of standard resin with mechanical properties equilibrium. It has the advantage of good dimensional stability and clear print outline, which helps show the print details; the product adopts customized color system with various colors, which can meet multiple needs.

Specifications:

Capacity: 250ml 500ml 1000ml
7 colors, which are black, white, grey, green, dark green, transparent and blue.

Parameters:

Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD638	46
Elasticity Modulus (MPa)		1150
Elongation at Break (%)		15
Bending Strength (MPa)	ASTMD790	50
Flexural Modulus (MPa)		1600
Notched Impact (J/m)	ASTMD256	22
Shore Hardness	ASTMD2240	86D
Distortion Temperature@0.45MPa(℃)	ASTMD648	60

Optimal printing environment:20-25℃,RH≤50%

Recommended Application:

It is recommended to apply on the complex parts such as print models, work pieces, toys or art crafts.

Display:

kexcelled Photopolymer resin

Prome™ E6230 High-strength Resin

Features:

Prome E6230 is a type of high-strength resin with the excellent surface hardness and incomparable scratch-resistance. It is also featured with high print accuracy and good dimensional stability.

Specifications:

Capacity: 250ml 500ml 1000ml
3 colors, which are black, white and grey

Parameters:

Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD638	64
Elasticity Modulus (MPa)		1060
Elongation at Break (%)		8
Bending Strength (MPa)	ASTMD790	55
Flexural Modulus (MPa)		1850
Notched Impact (J/m)	ASTMD256	20
Shore Hardness	ASTMD2240	90D
Distortion Temperature@0.45MPa(℃)	ASTMD648	60

Optimal printing environment:20-25℃,RH≤50%

Recommended Application:

It is recommended to apply in the industrial field, such as electronic product cases, abrasion resistance parts or electric tools.

Display:

Prome™ J6600 Foundry Resin

Features:

Prome J6600 is a type of foundry resin for jewelry casting. With high print accuracy, good molding effect, good dimensional stability and smooth surface, it can present perfect details as well as maintain a rather low ablation residual; it also retains enough strength that can protect it from extrusion and deformation, which is the only choice for jewelry casting and other foundry industries.

Specifications:

Capacity: 250ml 500ml 1000ml
1 Color: blue.

Parameters:

Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD638	50
Elasticity Modulus		980
Elongation at Break (%)		12
Shore Hardness	ASTMD790	86D

Optimal printing environment:20–25°C,RH≤50%

Recommended Application:

It is recommended to apply in the jewelry casting.

Display:

kexcelled Photopolymer resin

Prome™ E6210 Flexible Resin

Features:

Prome E6210 is a type of engineering resin with both flexibility and elasticity, inheriting the two features of Prome products, high print accuracy and dimensional stability, which enable it that can be applied in many fields.

Specifications:

Capacity: 250ml 500ml 1000ml
2 colors, which are black and grey.

Parameters:

Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD412	8.5
Elongation at Break (%)		150–200
Compression Set (%)	ASTMD395	0.35
Tear Strength (KN/m)	ASTMD624	9–10
Shore Hardness	ASTMD2240	88A

Optimal printing environment:20–25°C,RH≤50%

Recommended Application:

It is recommended to apply on the watch straps, sealing washers and electronic bracelets.

Display:

Prome™ E6200 High-durability Resin

Features:

Prome E6200 has good comprehensive performances featured with both strength and durability. Its high strength feature enables it to be used in the situation that requires strength; and its high durability also can meet the customers' needs of durability, which achieves the perfect combination of these two features.

Specifications:

Capacity: 250ml 500ml 1000ml
4 colors, which are black, grey, white and transparent.

Parameters:

Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD638	40
Elasticity Modulus (MPa)		856
Elongation at Break (%)		25
Bending Strength (MPa)	ASTMD790	45
Flexural Modulus (MPa)		920
Notched Impact (J/m)	ASTMD256	28
Shore Hardness	ASTMD2240	85D
Distortion Temperature@0.45MPa(℃)	ASTMD648	58

Optimal printing environment:20-25°C,RH≤50%

Recommended Application:

It is recommended to apply on the mechanical parts, assembly parts and toys.

Display:

kexcelled Photopolymer resin

Prome™ W6800 Washable Resin

Features:

Prome W6800 is a type of good quality environmental-friendly resin that you can just use water instead of ethyl alcohol and isopropanol to clean its surface, which not only protects the environment but also reduces the cost; W6800 itself has the better biological contact than other resin with lower skin irritation, which is the more environmental-friendly resin and loved by the print enthusiasts.

Specifications:

Capacity: 250ml 500ml 1000ml
1 Color: green.

Parameters:

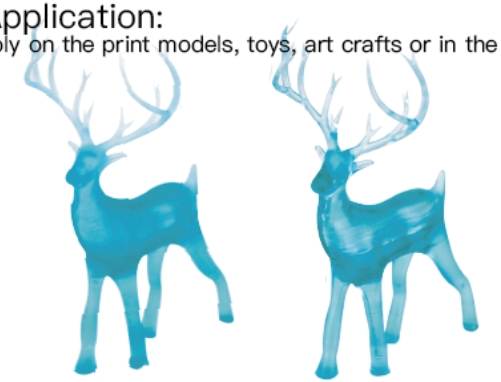
Mechanical Properties	Test Methods	Number
Tensile Strength (MPa)	ASTMD638	27
Elasticity Modulus (MPa)		500
Elongation at Break (%)		12
Bending Strength (MPa)	ASTMD790	40
Flexural Modulus (MPa)		650
Notched Impact (J/m)	ASTMD256	22
Shore Hardness	ASTMD2240	80D
Distortion Temperature@0.45MPa(℃)	ASTMD648	56

Optimal printing environment:20-25°C,RH≤50%

Recommended Application:

It is recommended to apply on the print models, toys, art crafts or in the education field.

Display:



kexcelled What we take lead in is not only sales

Amazon Best Sellers

Our most popular products based on sales. Updated hourly.

‹ Any Department
‹ Industrial & Scientific
‹ Additive Manufacturing Products
3D Printing Supplies
3D Printing Filament
3D Printing Granules
3D Printing Liquid

Best Sellers in 3D Printing Filament

#1

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, Black
★★★★☆ 1,126
$19.99

#2

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, White
★★★★☆ 768
$19.99

#3

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, Blue
★★★★½ 488
$19.99

#4

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, Gray
★★★★☆ 251
$19.99

#5

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, Red
★★★★½ 356
$19.99

#6

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm,...
★★★★½ 245
$19.99

#7

HATCHBOX PLA 3D Printer Filament, Dimensional Accuracy +/- 0.03 mm, 1 kg Spool, 1.75 mm, Green
★★★★½ 269
$19.99

#8

HATCHBOX 3D Printer Filament, Dimensional Accuracy +/- 0.03mm, 1.75 mm, 1 kg Spool, Wood
★★★★½ 369
$34.99

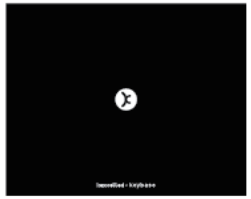
keybase

Features:

Keybase is an anti-warp tape used for 3D printing platform. Fixing the printed material onto the platform firmly is the first step for a successful printing, which is why we name this product keybase. Unlike conventional masking tapes, Keybase can be reused for more times and strongly bonded to printed materials.

160mm*160mm

270mm*160mm



300mm*240mm

160mm*160mm

190mm*240mm

300mm*300mm

Precautions

1. Clean the platform before the tape is stuck.
2. Re-level the platform after the tape is stuck.
3. Keep the angle between removal tool and platform as small as possible to avoid printing surface being damaged by removal tool.
4. Maximum temperature of the platform may not exceed 100°C.
5. Printing in the same area for many times is not recommended.
6. Follow our Wechat official account for printing manual.

hello!

Thank you for reading our manual. For more information about Professional and Enterprise materials, you can follow our Wechat official account, visit our website or directly contact our sales or technical staffs. We are looking forward to cooperation with more professional 3D printer suppliers for developing more adaptive and dedicated materials and expanding 3D printing market together.

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