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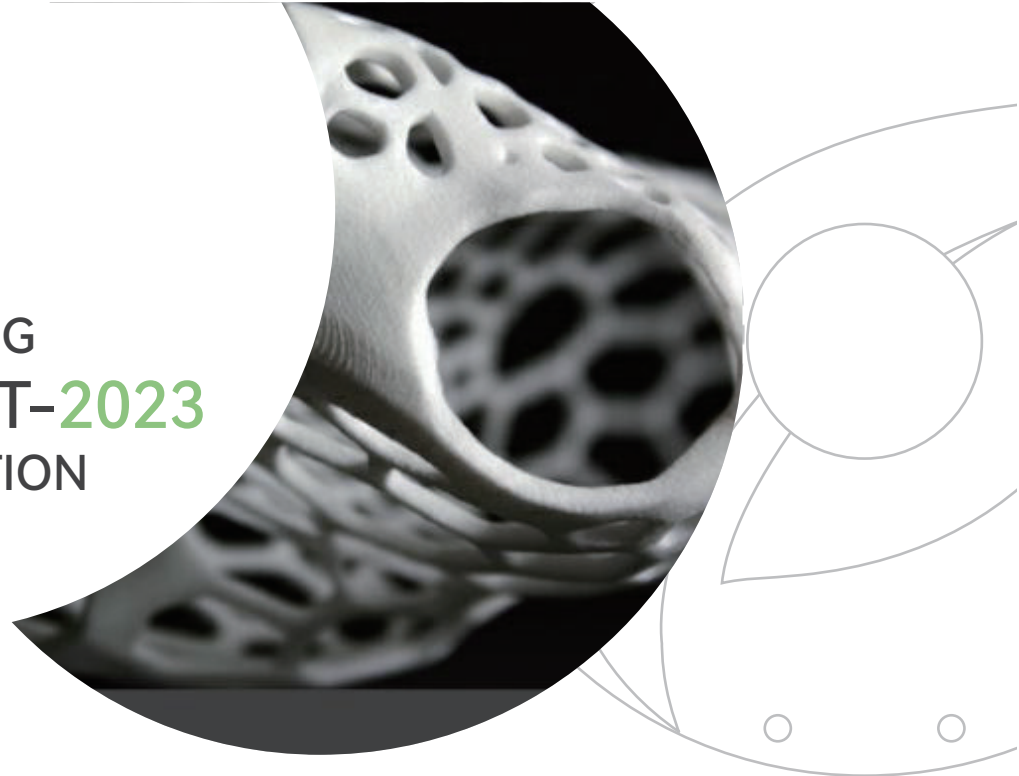
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3D PRINTING  
PRODUCT-2023  
INTRODUCTION



[www.esun3d.com](http://www.esun3d.com)

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# Profiles

eSUN is an internationally renowned 3D printing material brand founded by Shenzhen Esun Industrial Co., Ltd. The company was established in 2002 and was successfully listed on the New Third Board on April 5, 2016. Stock code: 836514.

The eSUN brand is committed to research and development, production and sales, and promotes the in-depth development of the 3D printing industry. The company has mastered the production technology of PLA, PCL, ABS, PETG and other 3D printing materials, which can meet different requirements of customers. eSUN 3D printing materials have a full range, excellent performance and wide application. They are widely used in product design, industrial manufacturing, surgical medical treatment, culture and art, education and scientific research, etc.



- |                             |                       |                             |                            |                             |
|-----------------------------|-----------------------|-----------------------------|----------------------------|-----------------------------|
| ① Shenzhen, CN Headquarters | ③ Houston, US Office  | ⑤ Ho Chi Minh, VN Factory   | ⑦ Dutch transit warehouse  | ⑨ Spanish transit warehouse |
| ② Wuhan, CN Office          | ④ Xiaogan, CN Factory | ⑥ Russian transit warehouse | ⑧ German transit warehouse | ⑩ US transit warehouse      |

**eSUN's products have been recognized by customers all over the world, and sold to nearly 100 countries and regions, building a global reputation .**

# Filaments



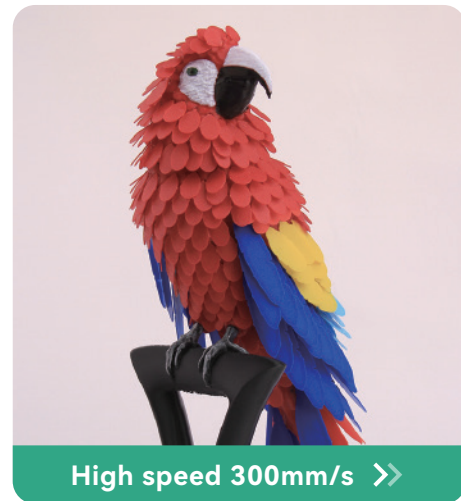
## ePLA+HS

Fast printing requires materials that can melt and cool quickly. However, to balance the speed of material melting and cooling, the physical properties of materials printed using fast techniques usually experience some decline. In order to provide 3D printed products with superior mechanical performance under fast printing conditions, we have conducted numerous tests on various rapid formulations. As a result, we have selectively chosen ePLA+HS, also known as ePLA+HS, which is specifically designed to match high-speed printing and offers enhanced toughness.

Color ● ● ● ● ● ● ● ● ● ●

### Features

- Stronger resilience
- Fast printing
- Excellent printability
- Lines are not easily brittle and broken



### Application

- Mechanical
- Electronics and Appliances
- Automobiles
- Cosplay



## ePLA-HS

High speed PLA, designed for high speed FFF printing. By balancing the melt flow index and melt temperature, the ePLA-HS can flow smoothly in molten state and cool fast during printing. In this way, it can achieve smooth printing without clogging and fast cooling without deformation during high speed printing. When being used with high speed printer, the printing speed can be 4-5 times faster than normal PLA. While ensuring the printing speed, it also guarantees the accuracy and mechanical properties.

Color

### Features

- Smooth flow without blocking.
- Faster cooling and forming.
- More suitable for high-speed printing.



High speed 300mm/s >>

### Application

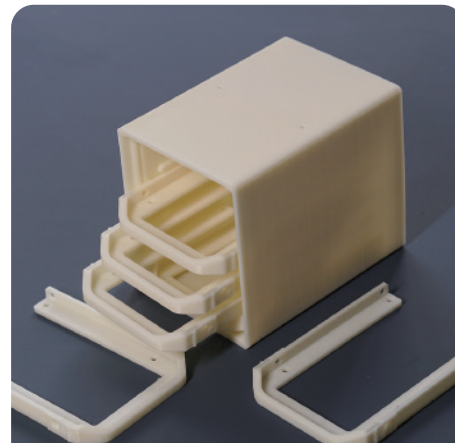
- Decorations
- Early concept model
- Rapid prototype design
- Mass production



## eABS+HS

eABS+HS is a modified version of ABS material. Compared to conventional ABS, it exhibits lower shrinkage and superior interlayer adhesion, reducing the likelihood of warping and cracking during printing. It contains low VOC (Volatile Organic Compounds) components, resulting in a reduced odor during the printing process, making it more comfortable and stress-free. This material is optimized for high-speed printing, maintaining its performance even at higher speeds, providing an excellent printing experience. Additionally, it can be acetone polished to eliminate layer lines and further enhance the print quality.

Color



High speed 300mm/s >>

### Features

- Heat resistance
- Low odor
- High speed printing
- Acetone polishing is available

### Application

- Mechanical
- Electronics and Appliances
- Toys
- Mold





## eTPU-HS

During high-speed printing, eSUN's TPU maintains high flowability by balancing fluidity and viscosity while considering strength and formability. They demonstrate excellent antibacterial and antifungal effects, with antibacterial rates of up to 99.9% against Escherichia coli and Staphylococcus aureus and a mold resistance level of 0—resistant to mold erosion. These materials possess good flexibility with a hardness of 95A, making them easy to print and enabling the rapid production of large, complex, and precise prototypes of elastic components. They exhibit outstanding elasticity, ensuring minimal deformation of the printed products. They are durable and long-lasting. With excellent tear resistance, wear resistance, and cut resistance. The materials feature a higher hardness level combined with good resilience, making them suitable for applications such as tires, insoles for footwear, etc.



High speed 300mm/s >>

### Features

- Flexible and soft
- High toughness
- High impact resistance

### Application

- Footwear/sporting materials
- Electronic machinery
- Medical equipment



## ePETG+HS

ePETG+HS, PETG Formula Newly Optimized for Faster and Superior Cooling Solidification, Compatible with High-Speed Printing, Material Adhesion to Nozzle during Printing Issues Optimized, Reducing the Likelihood of Poor Printing, Cost-Effective Waterproof, Chemical Resistant, High Toughness, and Fast Printing Material.



High speed 300mm/s >>

### Color



### Features

- Key Features:
- High Toughness
- Chemical Resistance
- Waterproof

### Application

- Waterproof Applications
- Snap-Fit Components
- Flower Pots
- Prototyping Validation



## PLA+

FDA Certified filament. PLA+ is made from renewable plant resources (such as corn). It is eco-friendly and easy to print. PLA+ is tougher than normal PLA and hard to break. Printed object has good mechanical property and is drillable. The printed surface is smooth and has bright colors. Quality is stable, good for printing both small and large size objects. Compatible with almost all types of FDM filament Printers.

### Color



### Features

- Good toughness
- Strong impact resistance
- Easy to print

### Application

- Decorations
- Early concept model
- Rapid prototype design



## ABS & ABS+

Both material has higher heat resistance than PLA. They have excellent balance of mechanical properties. ABS can be treated by acetone and has better layer adhesion than ABS+. ABS+ can't be treated by acetone. However, ABS+ is a easy to print version of ABS. Compared with normal ABS, ABS+ has less warping, lower printing smell, easier to stick to the print platform, easier to print and can be printed faster than ABS.

### Color



### Features

- High impact resistance
- Heat resistance
- Low shrinkage

### Application

- Molds
- Toys
- Electronics



## ePLA-Silk

The eSilk printed surface is very shiny and has silk-like appearance. Much more shiny than normal filaments. It is PLA based filament, eco-friendly and easy to print. Metal colors, rainbow colors, dichromatic colors (dual color) and trichromatic colors (triple colors) are available.

Color 

### Features

- Silky luster and texture
- Smooth surface



### Application

- Decorations
- Cosplay



## ePLA-Matte

PLA based filament with matte color. The printed surface shows a special matte appearance. The support part is easier to peel off from the model surface than other materials, and the contact surface is smooth and flat. No warping and cracking during printing. The filament is printed smoothly. Even if print for a long time, the nozzle will not be clogged.

Color 



### Features

- Matte luster and texture
- Smooth surface

### Application

- Decorations
- Cosplay





## ePLA-CF

By incorporating German-imported organic impregnated short-cut carbon fibers into PLA, we have enhanced the strength and modulus of the material. The addition of carbon fibers not only reinforces the PLA but also provides it with a matte appearance and a distinctive carbon fiber sandblasted texture. Whether used as structural components or for aesthetic purposes, ePLA-CF effortlessly excels, thanks to its outstanding attributes. Its printing performance is exceptional, making it suitable for high-speed printing.

Color ●

### Features

- High strength
- Matte appearance
- Carbon fiber frosted texture
- High speed printing



### Application

- Mechanical Parts
- Automotive Accessories
- Electronic Chemicals



## ePLA-ST

ePLA-ST is super tough PLA. It has much more toughness than PLA+, ABS, ABS+ and PETG. It is good to be used for mechanical purpose. It is PLA based and easy to print.

Color ○ ● ●



### Features

- High impact resistance
- Better Toughness than PLA+

### Application

- Mechanical parts
- Automotive
- consumer electronics



## ePLA-LW

ePLA-LW is an active foaming light weight PLA. It is different with other pre-foaming light weight PLA. Pre-foaming PLA has lower density than normal PLA before printing and the density wouldn't change during printing. For active foaming ePLA-LW, the density is similar to normal PLA before printing and can be changed by changing the printing temperature. The density can be lower than half of normal PLA after printing. Foaming volume ratio high up to 220%, 1 roll of ePLA-LW is equivalent to 2.2 rolls of ordinary PLA in the size of printed object. The layer adhesion is high. ePLA-LW is an ideal choice for aeromodel and drones.

Color ☐ ☒

### Features

- Free adjustment of strength and foaming ratio
- Density as low as 0.54g/cm<sup>3</sup>
- Foaming volume ratio 220%



### Application

- Aeromodel and drones
- Ship model
- Cosplay



## ePEEK-Industrial

Compared with other PEEK, ePEEK-Industrial is very cost effective. PEEK has inherently flame resistant and self-extinguishing property. It has outstanding resistance to a broad range of chemicals. And has excellent strength and toughness.

Color ☒



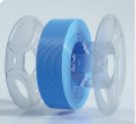
### Features

- Heat resistance&Flame retardant
- High impact resistance
- Abrasion resistance

### Application



- Automotive
- Aerospace
- Oil and gas






**PLA+ Refillament**

- Spoolless PLA+ filament
- Environment-friendly


**PLA Luminous**

- Glow in the darkness
- Excellent printability






**ePLA-Lite**

- A cost-effective choice
- Filament is not easy to break
- Excellent printability


**ePLA-Metal**

- Metallic glossy texture
- Smooth surface
- Easy to peel off support part


**eTwinkling**

- Special glittering color.
- Easy to print






**eMarble**

- Marble-like appearance
- Easy to print


**eStars-PLA**

- Glow in dark with star appearance
- Excellent printability


**Luminous PLA-Rainbow**

- luminous rainbow appearance
- Excellent printability




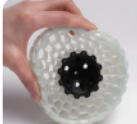

**ePLA-GF**

- High rigidity
- High wear resistance
- High impact resistance



**eClean**

- Cleaning nozzles
- Great compatibility


**eFlex (TPU-87A)**

- Flexible and soft
- Strong and sturdy
- High toughness

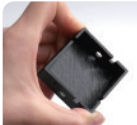
**eElastic (TPE-83A)**

- Flexible and soft
- Matte surface effect
- High elasticity






**ePAHT-CF**

- High strength
- High impact resistance
- Heat resistance



**ePA12**

- Low moisture absorption
- Abrasion resistance
- High dimensional stability



**ePA**

- Self-lubricating wear-resisting
- High toughness
- High impact resistance



**ePC**

- High toughness
- Heat resistance
- High impact resistance



**PVA**

- Water soluble
- Support material
- No residue after dissolution



**HIPS**

- Limonene soluble
- Support material
- Heat resistance


**eASA**

- Weather fastness
- High toughness
- High impact resistance

**eABS-Max**

- Antiflaming
- Sturdy and durable
- Heat resistance





## eResin-PLA Pro

Base material comes from plant extract PLA. Excellent balance of strength and toughness. High Precision, highly detailed printed object. High compatibility, suitable for color and mono screen, large and small size printers.

Color ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

### Features

- Excellent balance of strength and toughness
- Safe and low odor
- High Precision and Low Shrinkage
- Environmentally Friendly

### Application

- Education
- Mechanical Equipment
- Garage Kit
- Decorations



## MA100 Matte Resin

MA100 is a matte resin with extremely high detail reproduction, and its high molding precision allows for the faithful reproduction of figurines and models. Its matte texture enhances the expressiveness of figurine models, and its low viscosity and good flowability make it easy to print. It also possesses a certain level of toughness, suitable for various 405nm wavelength LCD/DLP devices.

Color   

### Features

- High Precision
- Matte Texture
- Low Viscosity



### Application

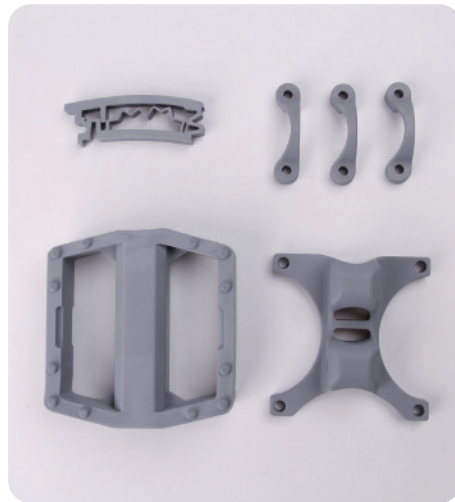
- Figurines
- Education
- Decorative Parts



## PA100 Nylon-Like Resin

PA100 Nylon-Like Resin is a high-strength resin material developed by eSUN for engineering and manufacturing applications. It offers excellent toughness and impact resistance, capable of folding at 180 degrees without fracturing. It maintains a powder-free operation at high speeds, making it suitable for joint applications. It exhibits excellent durability and long-term stability, with low shrinkage, good assembly performance, high precision, and a quality surface finish.

Color 



### Features

- Excellent Toughness and Impact Resistance
- Capable of Folding at 180 Degrees without Fracturing
- Maintains a Powder-Free Operation at High Speeds
- Excellent Durability and Long-Term Stability

### Application

- Fixtures
- Jigs
- Aerospace Models
- Industrial Parts





## PW100 PLA Water Washable Resin

Water washable resin. Base material comes from plant extract PLA. The resin has high molding accuracy and excellent details. After printing, the printed object can be cleaned by water instead of alcohol. Such property make it much safer to use. The smell is low, make people feels better when printing. Low viscosity, make the resin easy to flow. Compatible with color and mono screen, large and small size printers.

Color ☐ ☒ ☐ ☐ ☐

### Features

- Water Washable with Low odor
- Balance of strength, toughness and rigidity.
- High-precision



### Application

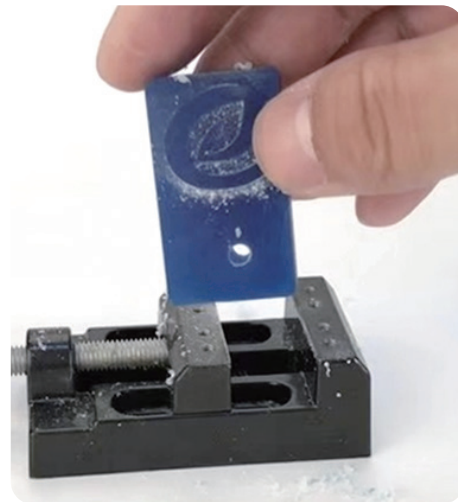
- Education
- Ornament



## Hard-Tough Resin

Strong and tough resin. Can be used for engineering purpose. Much higher impact resistance than normal resins. Excellent mechanical properties. Printed object is tough and mechanically drillable. Compatible with most printers.

Color ☐ ☒ ☐ ☐ ☐



### Features

- High toughness
- High impact resistance
- Strong and durable

### Application

- Automotive
- Mechanical





## S200 Standard Resin

Cost effective macaron color resin. It has high printing precision. The printed surface is delicate, small details are clearly visible. It has variable macaron colors. Compatible with color and mono screen, large and small size printers.

**Color**

### Features

- Macaron and Stunning Color
- Fast Curing and Excellent Fluidity
- High Precision and Low Shrinkage

### Application

- Mechanical Equipment
- Automotive
- Electronic
- Pearls and jewels



### OM100 Ortho Model Resin

Special resin material for dentistry, suitable for 3D printing high temperature resistant dental models.



### DM100 Dental Restoration Model Resin

Special resin material for dentistry, suitable for 3D printing high-precision dental models.



### SG100 Surgical Guide Resin

Dental resin material, suitable for printing implant guide plate.



### TC100 Temporary Crown&Bridge Resin

Dental printing resin, used to print temporary crown and bridge model.





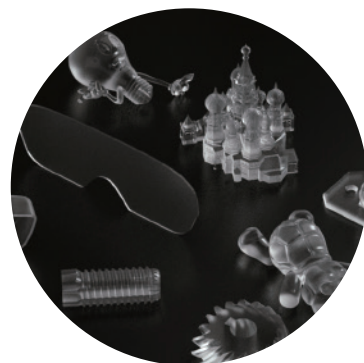
### A200 eResin-ABS Pro

ABS-like resin. Excellent mechanical properties.



### eResin-Elastic

Flexible resin.



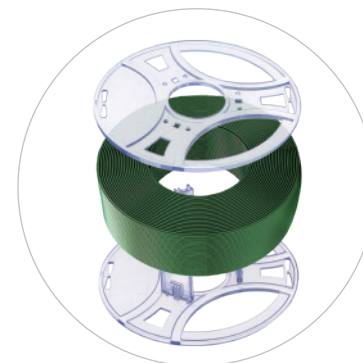
### PM200 PMMA Like Resin

Highly transparent resin.



### eBox Lite

Filament storage box. Can heat and dry filament. Moisture and dust proof.



### eSpool

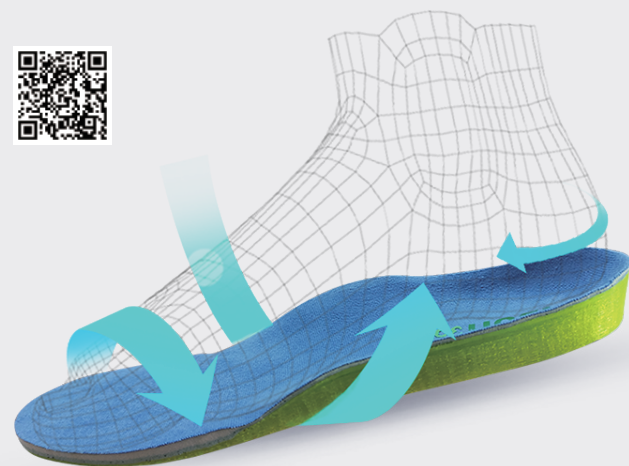
eSpool is reusable spool that used with refillament. It has piece body buckle design to save storage and shipping space.



### eVacuum Kit & eVacuum Kit Pro

Filament vacuum storage bag kit. The bags are reusable. eVacuum kit has hand pump and eVacuum Kit Pro has electric pump.





## Custom Insoles Solution

iSUN3D solution integrates testing, evaluation, design, 3D printing in one system.

For custom insoles, Add an arch to support the insole, custom insoles for flat feet, provides solutions.



Testing — evaluation — design — 3D printing in one system



FDA CERTIFICATION



DIN CERTIFICATION



SGS CERTIFICATION



IOS9001 CERTIFICATION



UL94-V0 CERTIFICATION



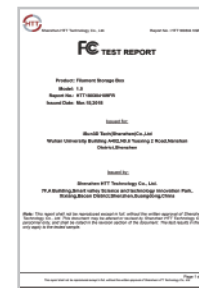
ROHS CERTIFICATION



EN71-3 CERTIFICATION



Reach CERTIFICATION



FCC CERTIFICATION



EMC CERTIFICATION

## Certification of eSUN