



**eSUN<sup>®</sup>**

**2018 Product manual**

# About Us

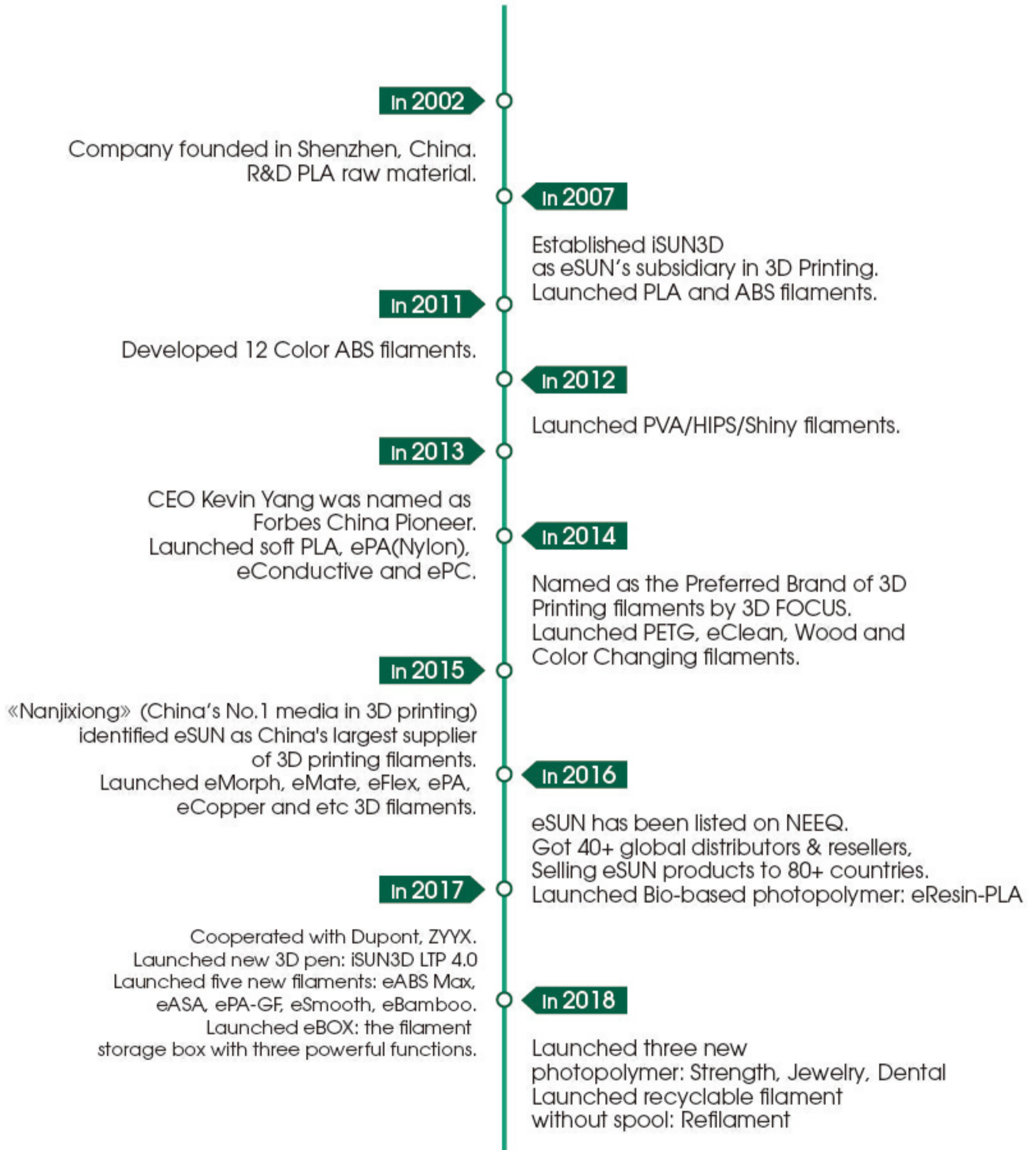
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eSUN was originally founded in Shenzhen in 2002, which is dedicated in R&D and industrialization of bio-degradable polymers, such as PLA and PCL. Adhering to Open Innovation with several top universities and institutions, eSUN own three R&D centers, which are syntheses, modification and application of polymers.

Since 2007, eSUN started to research 3D printing material, so far, eSUN successfully developed PLA, ABS, PVA(water soluble support filament), HIPS, PA, PCL, and PC filament etc. Since 2015, eSUN developed photopolymers for SLA/DLP/LCD 3D printing applications.

'Best Quality, Reasonable Price' is eSUN 's long-term insistent policy. Because of these, eSUN 3D printing materials are very popular in the globe market with eSUN brand or OEM brands. eSUN successfully established a stable win-win relationships with many famous 3D printer manufacturers, distributors and resellers all over the world.

# Our History



# Our Competence

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16 years history of company

11 years history of 3D printing material

30+ 3D printing materials

20+ patents acquired

20+ production lines

1,500,000 kg annual production capacity of 3D printing material

3 warehouses covering China, America and Europe

30+ exhibitions attended globally every year

50+ distributors globally

100+ countries and areas supplied

# Our Certifications



NOTIFICATION OF REGISTRATION

The company  
**Shenzhen Esun Industrial Co., Ltd.**  
 A403-1, Wuhan University Bldg.  
 Y. Wang 2 Road  
 SHIBO SHENG HEN  
 SHENZHEN SHENZHON  
 CHINA

has duly received the confirmation for the Composite material of the mark

**Novity Poly(ethylene Glycol) Compound**

CONFORMS TO  
 DIN EN 18455:2000-02  
 ASTM D 6902:09

Certification scheme products made of composite materials (Fibres, 9055,06)

and is granted a special entitlement for advertising purposes according to § 8 (a) of the Regulations governing Use of the Mark for the mark



according to the Regulations governing Use of the Mark and the Trademark Usage Guidelines in conjunction with the Registration No. below

Registration No.: 290260


This Notification of Registration is valid until 2018-06-30.

For further information  
 JIN GUOJIA, Coordinator for  
 PATENT REGISTRATION & MARK  
 REGISTRATION, TEL: 010 6371 2077



3010-8509  
 JIN, P.O. BOX 101, 100 001  
 MARK OF CHINA

S. Seif



Test Report No. CMAH201006901 Date: 24 Jun 2010 Page: 1 of 6

SHENZHEN ESUN INDUSTRIAL CO., LTD.  
 WUHAN UNIVERSITY BUILDING, WANG YU WANG 2 ROAD, SHENZHON SHENZHON, CHINA


The following complex(s) were submitted and identified on behalf of the client as: **PLA Fibres**

Order No.: CMAH201006901  
 Internal Reference No.: 01  
 Date of Sample Receipt: 19 Jun 2010  
 Testing Period: 19 Jun 2010 - 24 Jun 2010  
 Test Requested: Identification, (as requested by client)  
 Test Method: Fibre reference page(s)  
 Test Results: Fibre reference page(s)  
 Conclusion: Based on the performed tests on submitted samples the results of Lead, Manganese, Cadmium, Hexavalent Chromium, Polychlorinated Biphenyls (PCBs), Polycyclic Aromatic Hydrocarbons (PAHs) and other heavy metals are in accordance with the requirements of GB 18455-2002.


Signed for and on behalf of  
 CMAH201006901

Merry

Head of Accredited Dept




SGS  
 9000 Rue de la Boissière, CH-1215 CourmAYEUR, SWITZERLAND  
 TEL: +41 22 717 7311 FAX: +41 22 717 00 11  
 www.sgs.com



TEST REPORT NUMBER: 00000000000000000000

DECLARATION: SHENZHEN ESUN INDUSTRIAL CO., LTD. 17th FLOOR, WUHAN UNIVERSITY BUILDING, WANG YU WANG 2 ROAD, SHENZHON SHENZHON, CHINA. SAMPLE NO.: 2010-06-01

SAMPLE DESCRIPTION: NOVITY POLY(ETHYLENE GLYCOL) COMPOUND (FIBRES) (9055,06)



RESULTS OBTAINED: IN CONFORMITY WITH THE REQUIREMENTS OF THE STANDARD ISO 9001:2008

DECLARATION: THIS REPORT IS THE PROPERTY OF INTERTEK. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF INTERTEK.

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PAGE 1 OF 2



CERTIFICATE

IONet and CQM hereby certify that the organization  
**Shenzhen Esun Industrial Co., Ltd.**  
**Xiagan Esun New Material Co., Ltd.**

has been certified in accordance with the requirements of the International Standard  
**ISO 9001:2008 Standard**

For the product(s)/service(s) to the standard:

Issued on: 2010-06-29  
 Validity date: 2014-06-09  
 Factory name: 00000000000000000000  
 Registration Number: 00000000000000000000

[Signature] [Signature]

General Manager General Manager



IONet  
 CQM

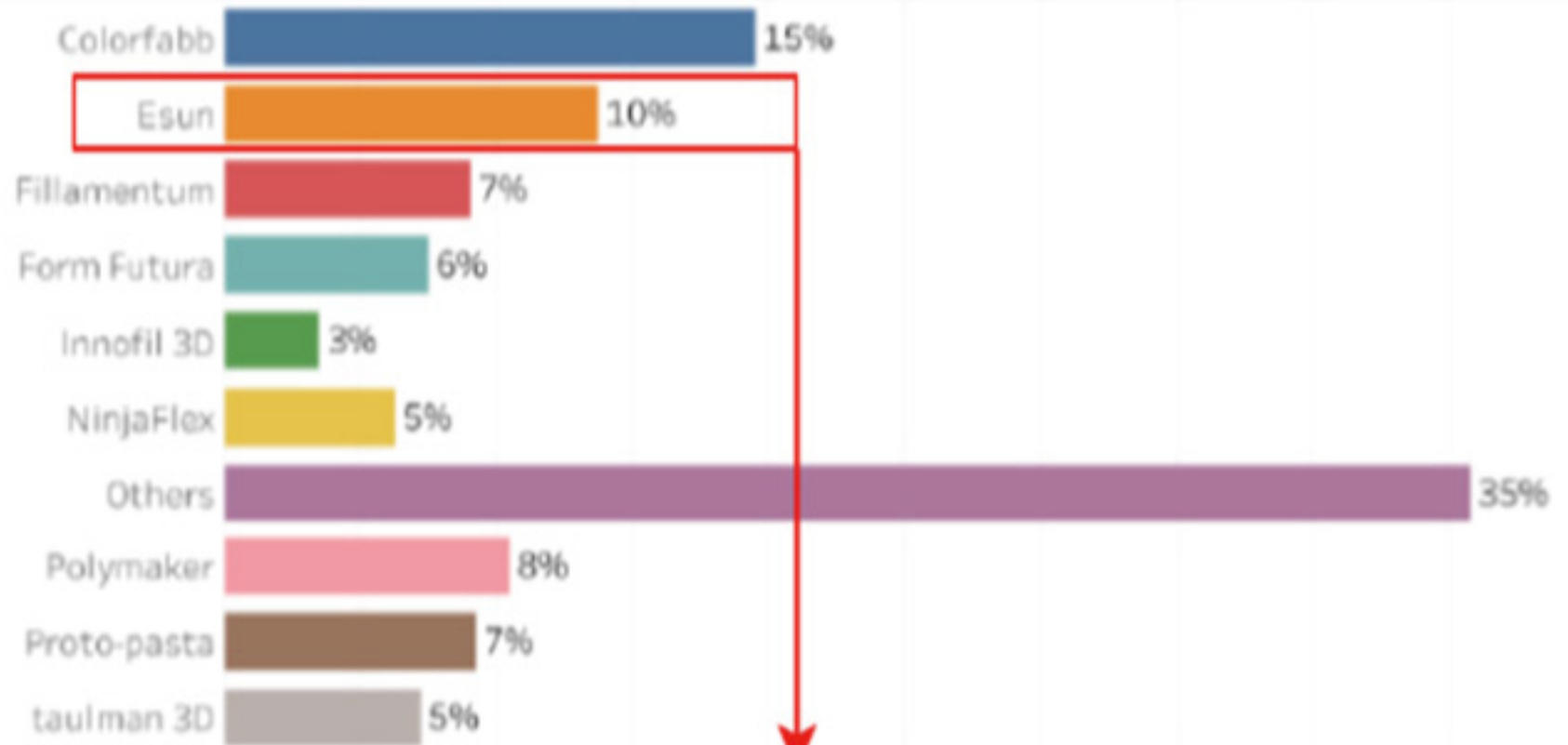
Intertek Testing Services Shenzhen Ltd. 77th Division  
 27, Shuibao Road, Shenzhen, Guangdong, China  
 Shenzhen is a member of the Intertek Global Network of Laboratories

# Our Honors



eSUN has the largest sales amount of 3D Filament in China in 2015, 2016 and 2017

## What is your favourite filament brand?



eSUN was listed at Top 2 as 2018 favourite filament brand, by Filament.Directory

# Our Achievements



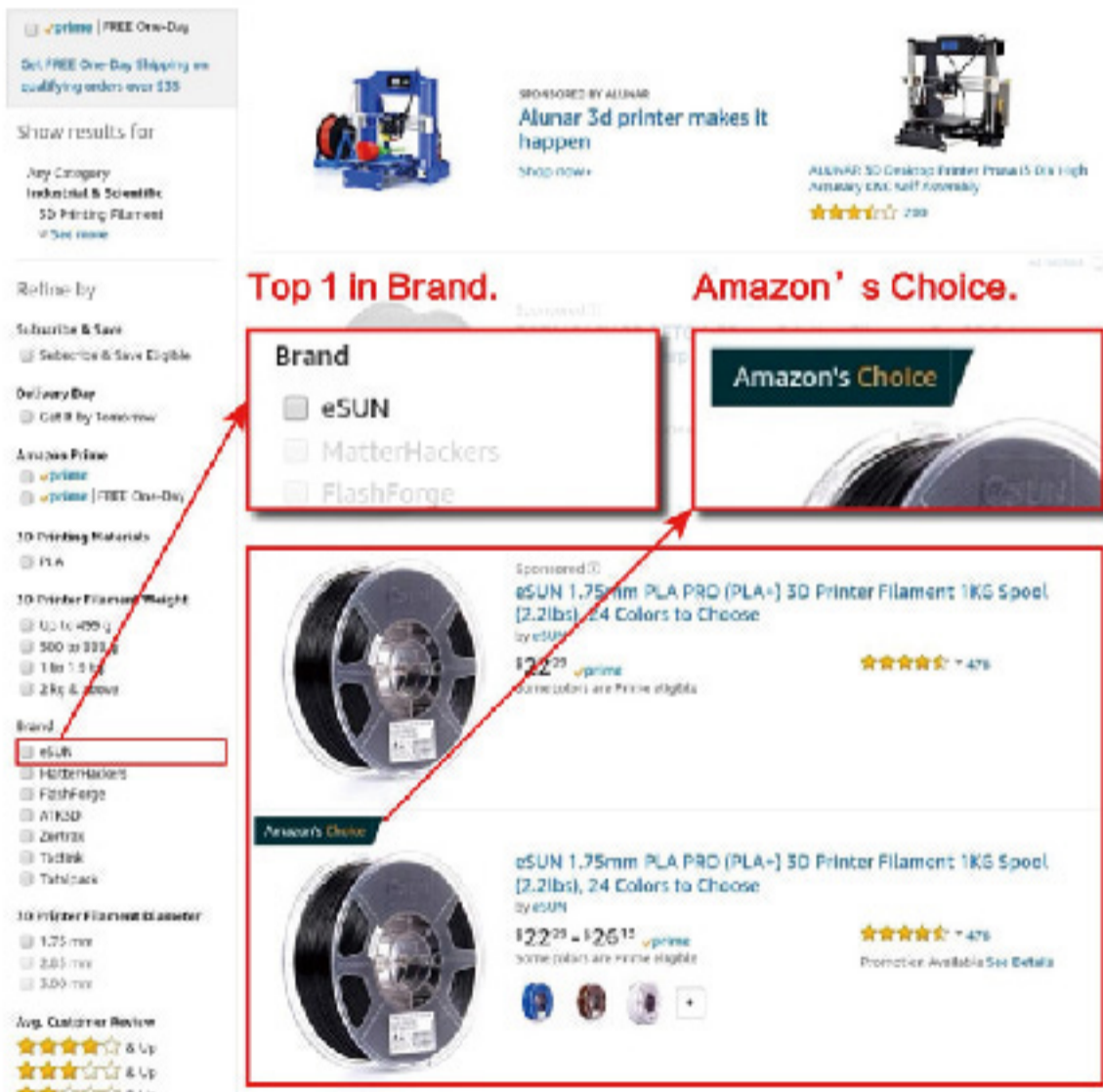
Ranked top 1 on Tmall in China



Ranked top 2 on Amazon Japan



Ranked top 2 on Amazon Germany



Ranked top 1 on Amazon US

# Product Colors

---



White



Luminous Green



Natural



Skin



Yellow



Gold



Orange



Luminous Red



Luminous Blue



Pink



Magenta



Red



Glass Purple



Glass Lemon



Glass Orange



Glass Red



Purple



Gray



Peak Green



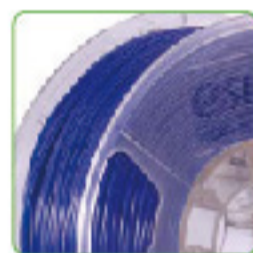
Light Blue



Pine Green



Green



Blue



Glass Light Blue



Brown



Black



Silver



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# PLA

**Standard PLA since 2007, earliest supplier in China.**

- Non harmful, non-toxic, and environment friendly;
- Good material toughness, good strength;
- Suitable for complex models;
- Low material shrinkage rate, uniform diameter.

**Demo prints:**



**Printing set:**

Print temp: 190 - 220℃  
 Hot bed temp: 0/(60 - 80)℃  
 Print speed: 30 - 100mm/s

**Offer 24 colors**

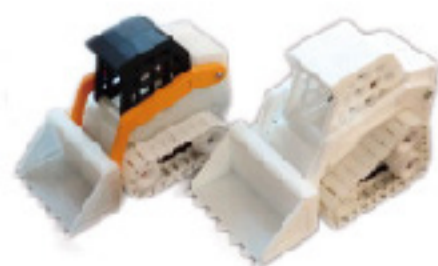


# PLA+

**Upgraded PLA, solved the defects of standard PLA.**

- High rigidity, good glossiness and transparency;
- Suitable for printing larger models;
- Toughness is 10 times more standard PLA;
- No wiredrawing problem;
- No cracking problem.

**Demo prints:**



**Printing set:**

Print temp: 205 - 225℃  
 Bed temp: 60 - 80℃  
 Print speed: 30 - 90mm/s

**Offer 20 colors**





# ABS

**Standard ABS, can be treated by acetone.**

- High strength;
- Good toughness;
- Scratch resistance;
- The surface can be polished by using acetone and easy to be colored.

**Demo prints:**



**Printing set:**

Print temp: 220 - 260°C  
 Hot bed temp: 110°C  
 Print speed: 30 - 60mm/s

**Offer 21 colors**



# ABS+

**Upgraded ABS, solved the defects of standard ABS.**

- Good flowability, easy to print;
- High toughness, hardness and rigidity;
- Good scratch resistance;
- Suitable for printing large models;
- Good heat resistance and oil resistance.

**Demo prints:**



**Printing set:**

Print temp: 220 - 260°C  
 Bed temp: 110°C  
 Print speed: 30-60mm/s

**Offer 21 colors**





## PETG

**Filament that combines the advantages of ABS and PLA.**

- No smelling when printing;
- Low shrinkage;
- Low hygroscopic;
- Good toughness.

**Demo prints:**



**Printing set:**

Print temp: 230 - 250°C  
 Bed temp: 25 - 80°C  
 Print speed: 30 - 80mm/s

**Offer 17 colors**



## HIPS

**Limonence soluble filament**

- Soluble in limonence;
- Low water absorption;
- Good toughness.

**Demo prints:**



**Printing set:**

Print temp: 220 - 260°C  
 Bed temp: 110°C  
 Print speed: 30 - 80mm/s

**Offer 5 colors**





## eMate(PCL)

### Low temp print filament

- Melt at low temperature, very suitable for low temp 3D pen;
- After being used by 3D pen, the eMate can be reused for handicraft.

### Demo prints:



### Printing set:

3D Pen Print temp: 70 - 100℃

Bed temp: None℃

Print speed: 10 - 40mm/s



## PLA Clear

### PLA in translucent color

- Translucent color
- Non harmful, non-toxic, environment friendly.
- Good material toughness, good strength.
- Suitable for complex models.
- Low material shrinkage rate, uniform diameter.

### Printing set:

Print temp: 190-210 ℃

Hot bed temp: 25-70 ℃

Print speed: 30-80mm/s



## Luminous PLA

### **Luminous filament, glow in dark**

- Glow long and bright in dark
- Easy to print
- Good material toughness, good strength.

### **Printing set:**

Print temp: 190 - 210°C

Bed temp: 25 - 70°C

Print speed: 30 - 80mm/s



## Luminous PLA+

### **Luminous filament, glow in dark**

- Glow long and bright in dark
- Easy to print
- Good material toughness, good strength.

### **Printing set:**

Print temp: 205 - 225°C

Bed temp: 25 - 70°C

Print speed: 20 - 90mm/s



## Luminous ABS

### Luminous filament, glow in dark

- Glow long and bright in dark
- High strength.
- Good toughness.
- Scratch resistance.

### Printing set:

Print temp: 220 - 260°C

Hot bed temp: 110°C

Print speed: 30 - 60mm/s



## Luminous ABS+

### Luminous filament, glow in dark

- Glow long and bright in dark
- High strength.
- Good toughness.
- Scratch resistance.

### Printing set:

Print temp: 220 - 260°C

Bed temp: 110°C

Print speed: 30-60mm/s





## PVA

### High performance water soluble filament

- Biodegradable;
- Dissolve faster in hot water (<math><60^{\circ}\text{C}</math>).

#### Demo prints:



#### Printing set:

Print temp: 180 - 210°C

Bed temp: No heat/60-80°C

Print speed: 30-80mm/s

## eSoluable

### High water dissolution speed filament. Less absorption of moisture

- Solving speed in water is more than twice of PVA;
- Less moisture absorption rate than PVA;
- Compatible with multiple materials.



#### Demo prints:



#### Printing set:

Print temp: 190 - 210°C

Bed temp: No heat/(60 - 80) °C

Print speed: 50-80mm/s



## eABS MAX

**Fire-resistant filament, UL94-V0 standard.**

- UL94-V0 fire-resistant;
- Maintain 90% physical performance in -20°C and won't crisp;
- Can be polished by acetone.

**Demo prints:**



**Printing set:**

Print temp: 200 - 240°C

Bed temp: 110°C

Print speed: 30 - 60mm/s



## eASA

**UV-resistant filament, perform well in outdoor environment**

- Weather resistant;
- UV resistant;
- High-temp resistant;
- Anti-static material.

**Demo prints:**



**Printing set:**

Print temp: 220 - 260°C

Bed temp: 90 - 110°C

Print speed: 20 - 90mm/s



## ePA(Nylon)

### High toughness nylon material

- Transparent material;
- High toughness;
- Good weatherability;
- Oil resistant;
- Chemical resistant.

### Demo prints:



### Printing set:

Print temp: 230 - 260°C

Bed temp: 80 - 110°C

Print speed: 30 - 80mm/s



## ePC

### Polycarbonate (PC) material

- Environmental-friendly;
- High distortion temperature;
- Good thermostability.

### Demo prints:



### Printing set:

Print temp: 235 - 260°C

Bed temp: 80 - 110°C

Print speed: 30 - 80mm/s



## ePA-CF

### **Nylon based carbon-fiber filament**

- Nylon based, 20% carbon fiber filled;
- Suitable for industrial purpose;
- Heat distortion temp is 120°C;
- Low shrinkage.

#### **Demo prints:**



#### **Printing set:**

Print temp: 240 - 260°C

Bed temp: 80°C

Print speed: 30 - 80mm/s



## ePA-GF

### **Nylon based glass-fiber filament**

- Good mechanical strength;
- Low shrinkage;
- Low hygroscopicity.

#### **Demo prints:**



#### **Printing set:**

Print temp: 240 - 260°C

Bed temp: 80 - 80°C

Print speed: 40 - 60mm/s



## eFlex (TPU)

**TPU flexible filaments in Shore hardness 87A**

- Transparent appearance;
- TPU filament in Shore hardness 87A;
- Good resilience.

**Demo prints:**



**Printing set:**

Print temp: 210 - 230°C

Bed temp: No heat/(25 - 80°C)

Print speed: 10 - 40mm/s



## eElastic (TPE)

**TPE flexible filaments in Shore hardness 83A**

- Available in various colors;
- TPE filament in Shore hardness 83A;
- Good resilience.

**Demo prints:**



**Printing set:**

Print temp: 210 - 230°C

Bed temp: No heat/(25-80°C)

Print speed: 10-30mm/s

**Offer 6 colors**





## eTPU-95A

**TPU in Shore hardness 95A. Stronger than normal TPU**

- TPU in Shore hardness 95A
- Stronger than normal TPU
- Easier to be printed compared with normal TPU and TPE.

**Demo prints:**



**Printing set:**

Print temp: 200 - 220°C

Bed temp: No heat/(60 - 80) °C

Print speed: 10 - 40mm/s



## eClean

**Clean filament used to clean hot end**

- No smell;
- Wide printing temperature range;
- Used to clean FDM 3D printer hot end.

**Printing set:**

Print temp: 160 - 300°C

Bed temp: none

Print speed: none



## ePEEK

### High strength and hardness filament

- High strength, high hardness, high temperature resistance;
- Heat distortion temp is more than 150°C;
- Good adhesion between layers when printing.

#### Demo prints:



#### Printing set:

Print temp: 380 - 410°C

Bed temp: 120 - 140°C

Print speed: 15 - 30mm/s



## ePEEK Pro

### Upgraded PEEK, provide good printing experience

- Good printing experience;
- High strength, high hardness, high temperature resistance;
- Heat distortion temp is more than 150°C;
- Good adhesion between layers when printing.

#### Demo prints:



#### Printing set:

Print temp: 380 - 410°C

Bed temp: 120 - 140°C

Print speed: 15 - 30mm/s



## eMagnetic

---

**Magnetic filament, can be polished after printing**

- Magnetic filament
- Can be polished mechanically after printing

### Printing set:

Print temp: 190-210°C

Bed temp: 40-50°C

Print speed: 40-60mm/s



## eConductive

---

**Conductive filament**

- Conductive property
- Can be used for electromagnetic shielding

### Printing set:

Print temp: 190 - 210 °C

Hot bed temp: 40 - 50 °C

Print speed: 40 - 60mm/s





## Bronze

**Filament with metal powder and provides bronze appearance**

- Bronze appearance after printing;
- Low shrinkage;
- Can be polished mechanically after printing.

### **Demo prints:**



### **Printing set:**

Print temp: 180 - 210°C

Bed temp: 25 - 70 °C

Print speed: 30 - 60mm/s



## eCopper

**Filament with metal powder and provides copper appearance**

- Copper appearance after printing;
- Low shrinkage;
- Can be polished mechanically after printing.

### **Demo prints:**



### **Printing set:**

Print temp: 200 - 220°C

Bed temp: 25 - 70°C

Print speed: 20 - 90mm/s



## **eAl-fill**

**Filament with metal powder and provides aluminum appearance**

- Aluminum appearance after printing;
- Low shrinkage;
- Can be polished mechanically after printing.

### **Demo prints:**



### **Printing set:**

Print temp: 200 - 220°C

Bed temp: 25 - 70°C

Print speed: 30-60mm/s



## **eSteel**

**Filament with metal powder and provides steel appearance**

- Steel appearance after printing;
- Low shrinkage;
- Can be polished mechanically after printing.

### **Demo prints:**



### **Printing set:**

Print temp: 200 - 220°C

Bed temp: 25 - 70°C

Print speed: 30 - 80mm/s

## Wood



### Demo prints:



### Wood appearance filament

- Wood appearance after printing;
- No smelling during printing;
- Can be printed without heated bed.

### Printing set:

Print temp: 190 - 220°C

Bed temp: 25 - 70°C

Print speed: 30 - 60mm/s

## eBamboo



### Demo prints:



### Bamboo filled filament

- Filament with bamboo powder;
- Wood aroma and appearance;
- Suggest to remove printed parts from the nozzle as soon as possible after printing, otherwise the wood powder ; may expand and burn.

### Printing set:

Print temp: 200 - 220°C

Bed temp: 25 - 70°C

Print speed: 20 - 90mm/s

**Demo prints:**

## eSmooth

**High water dissolution speed filament.  
Less absorption of moisture**

- Solving speed in water is more than twice of PVA;
- Less moisture absorption rate than PVA;
- Compatible with multiple materials.

**Printing set:**

Print temp: 190 - 210 °C

Bed temp: No heat/(60 - 80) °C

Print speed: 50 - 80mm/s

**Demo prints:**

## Color Change

**Color change by temp or light**

- Color change by light filament will change color when exposed to light;
- Sunlight exposure life for Color change by light filament is around 5-12hours;
- Color change by light filament can be used for several years if each exposure time is very short ;
- Color change by temp filament changes color gradually in different temp.

**Printing set:**

Print temp: 190 - 220 °C

Bed temp: No heat/(60 - 80) °C

Print speed: 30 - 80mm/s



## eResin-PLA (Bio-based resin)

**Pioneer of Bio - based resin, environmental friendly.**

- High Precision;
- High hardness and scratch resistance;
- good moisture-resistance performance.

**Printing set:**

**Offer 3 colors**

Layer thickness(mm): 0.02 - 0.05

Bottom layers: 3

Bottom Exposure Time: LCD:30s DLP:10s

Normal Exposure Time: LCD:15-20s DLP:3 - 5s



## Strength Resin for DLP

**High intensity, low shrinkage, high speed printing**

- High precision, smooth surface;
- Low volume shrinkage property;
- Low flavour and nontoxic, environment-friendly material;
- Fine flexibility, no crack after curing;
- Temperature up to 100 degree Celsius.

**Printing set:**

**Offer 5 colors**

Layer thickness(mm): 0.02 - 0.05

Bottom layers: 3

Bottom Exposure Time: 10s

Normal Exposure Time: 2 - 3s





## Castable resin for jewelry

**Specially designed for the jewellery industry .Low temperature casting. Suitable for both LCD and DLP printers.**

- High precision, smooth surface;
- Casting easily and 100% no ash;
- Low Volume shrinkage property;
- Finest details with low odor;
- Fine flexibility, no crack after curing.

### **Printing set:**

Layer thickness(mm): 0.02 - 0.05

Bottom layers: 3

Bottom Exposure Time: LCD:80s DLP:10s

Normal Exposure Time: LCD:15-20s DLP:3-5s



## Castable resin for dental

**Speially design for dental, Low Volume shrinkage. Suitable for both LCD and DLP printers.**

- High precision, smooth surface;
- Great casting performance, ash free;
- High hardness, resistant to shock;
- Low Volume shrinkage to 1.88% - 2.45%;
- Compatible to most DLP with LED UV.

### **Printing set:**

Layer thickness(mm): 0.02 - 0.05

Bottom layers: 3

Bottom Exposure Time: LCD:80s DLP:10s

Normal Exposure Time: LCD:15-20s DLP:3-5s



## General-purpose resin for LCD

### Compatible to most LCD printers

- Fast Printing speed;
- Low Shrinkage;
- Low odor and no toxic;
- High hardness 88 shore D.

### Printing set:

Layer thickness(mm): 0.02 - 0.05

Bottom layers: 3

Bottom Exposure Time: LCD:80s DLP:10s

Normal Exposure Time: LCD:15-20s DLP:3-5s

### Offer 5 colors



## iSUN3D-L120

### Desktop LCD 3D printer

- The printing is higher accuracy, faster speed, and the stability is more stable;
- Achieve the best fineness and improve the multifunction of the 3D printer;
- Help animation, manufacturing, art, architectural design;
- Support different properties of resin materials to meet the requirements ;
- Any application to the desktop of education and product designers.



### Printing set:

Build volume: 120mm\*60mm\*130mm

curing rate: 5s ~ 15s per layer

X/Y Accuracy: 0.05mm

Z Accuracy: 0.02mm

Wavelength: 405nm

### Certification:

CE/FCC

## iSUN3D-D150



### Deskport DLP 3D printer

- High precision and speed, printed model can be used for direct casting;
- USA imported core projector component, ensure printer stability;
- Dedicated LED light source, higher efficient heat less, longer lifetime;
- Software corrects the projection distortion automatically to ensure the Aprinting precision;
- Software automatic calibrate the light intensity and make compensation.

### Printing set:

Heating temp: 80°C

Filament type: eMate

Filament diameter: 1.75mm

Laying speed: 0 - 120cm/min

### Certification:

CE/FCC

## iSUN3D-SLA



### Industrial SLA 3D printer

- The molded part has the ultimate detail and smooth surface quality;
- The precision can be as high as 0.05mm, and the precision sample can be made;
- Easy to produce various complex parts and assemblies;
- Support different properties of resin materials to meet the requirements of rigidity, detail, heat resistance and so on;
- energy-saving, environmental friendly and economical.

### Printing set:

Laser System: 355nm Diode Laser 1000mw

Net Build Volumn: 300mm\*300mm\*250mm

/450mm\*450mm\*350mm/600mm\*600mm\*400mm

Laser Spot Diameter:0.08mm - 0.10mm

Scanning Speed:5.0m/s(Standard) 12.0m/s(Highest Speed)

Scanner Brand: Scanlab(Germany)

### Certification:

CE/FCC



## iSUN3D LTP4.0



**Safe, light and environment friendly, three optional packing.**

- Low temperature, draw in 80 °C;
- One-click operation;
- Available with mobile power;
- Lightly designed.

**Demo prints:**



**Printing set:**

Heating temp: 80°C  
 Filament type: eMate  
 Filament diameter: 1.75mm  
 Laying speed: 0 -120cm/min

**Offer 4 colors**



**Certification:**

CE/FCC/ROHS

## iSUN3D LTP6.0



**Built-in rechargeable battery make it work without connecting power**

- Built-in rechargeable lithium polymer battery;
- Low temperature, safe for kids;
- Available with power bank and PC USB output;
- Cute design with simple control.

**Demo prints:**



**Printing set:**

Heating temp: 90°C  
 Filament type: eMate  
 Filament diameter: 1.75mm,

**Offer 4 colors**



**Certification:**

CE/FCC/EN71/ROHS

## eBOX — Multi-function



### Product Specification

- Heating and dried;
- Moistureproof and dustproof;
- Weighing.

### Printing set:

Package Size: 249(L)×138(W)×272.5(H) mm

Product Size: 215(L)×104(W)×238.5(H) mm

Max Capacity: Φ200×73(H) mm

Product Weight: 750g

Rated Power: AC100-240V~50/60Hz

Power Output: DC12V~3A

Power of Drying Heater: 36W

Max Temperature: 750g

Max Temperature: 0.1W

Weighing Load: 2kg

Weighing Error: ±20g

Filament Diameter: 1.75mm/2.85mm/3mm

## PLA+ Refilament/Respool



**PLA+ filament package without spool and customer can use the Refilament with eSUN spool or Respool. 3D Printed Spool(reusable) for PLA+ Refilament**

- Twisting-free filament;
- Eliminate the accumulation of empty spools;
- Decrease the plastic waste and be environment-friendly.

### Demo prints:



### Printing set:

Print temp: 205 - 225 °C

Bed temp: 25 - 70 °C

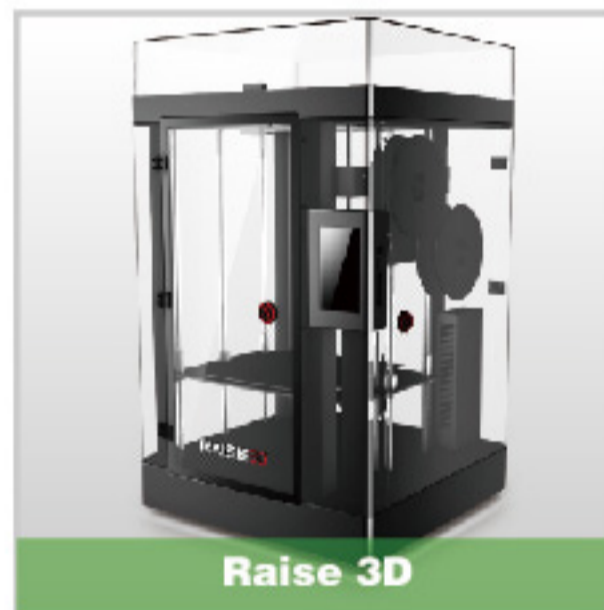
Print speed: 30 - 80mm/s

### Offer 24 colors



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**Shenzhen Esun Industrial Co., Ltd.**  
**eSUN 3Dprinting Co.,Ltd**

**Address:** Wuhan University Building A403 , No.6  
Yuexing 2 Road, Nanshan District, Shenzhen, China, 518057

**Tel:** +86-755-26031979

**Fax:** +86-755-26031982

**Website:** [www.brightcn.net](http://www.brightcn.net) / [www.esun3d.net](http://www.esun3d.net)

**E-mail:** [bright@brightcn.net](mailto:bright@brightcn.net)

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