



JIANYU

3D Printing Filaments

Hangzhou Polyful Advanced Material Co., Ltd.

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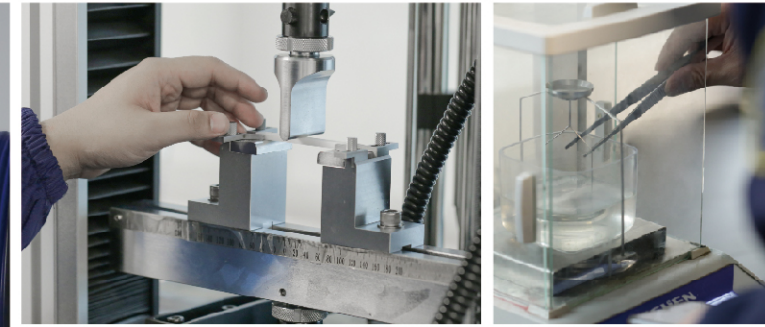
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Hangzhou Polyful Advanced Material Co., Ltd.

COMPANY INTRODUCTION

Hangzhou Polyful Advanced Material Co., Ltd. is a high-tech enterprise specializing in R&D, production, and sales of high-end polymer products.

Polyful was founded in 2018, with technology innovation as the core. The company focuses on R&D investment and team building, possessing domestically advanced polymer pilot test equipment and detection devices. Guided by market demand and targeting high-end polymer materials, the company collaborates intensely with the State Key Laboratory of Chemical Engineering (Zhejiang University), introducing laboratory achievements from well-known universities and research institutions, and fully utilizing the company's characteristic pilot test platform to develop a series of core technologies for preparing high-end polymer materials that integrate process, control, and specialized equipment, and organize industrialized production.



Currently, the company has successfully developed and mass-produced products for sale, including compostable plastics, thermoplastic silicone elastomers, modified engineering plastics, polyolefin-modified materials, specialty nylons, ultra-low dielectric PPO for 5G applications, 3D printing pellets and filaments, etc. Product quality has reached a nationwide leading level, and is widely used in fields such as automobile, energy, construction, home appliances, electronic appliances, etc.

3D PRINTING BRAND INTRODUCTION

【英语 JIANYU】 is the exclusive brand of POLYFUL in the 3D printing materials area, JIANYU has the full knowledge and experience inheriting POLYFUL's polymer technology; it has more efficient and flexible advantages in R&D to provide customers with high-performance and modified 3D printing polymer solutions.

Technology-driven, advanced polymer research, production and sales company.

Committed to leading in the area of advanced polymer technologies.

Keep developing safe, pro-environment, sustainable solutions in the area of advanced polymer technologies.

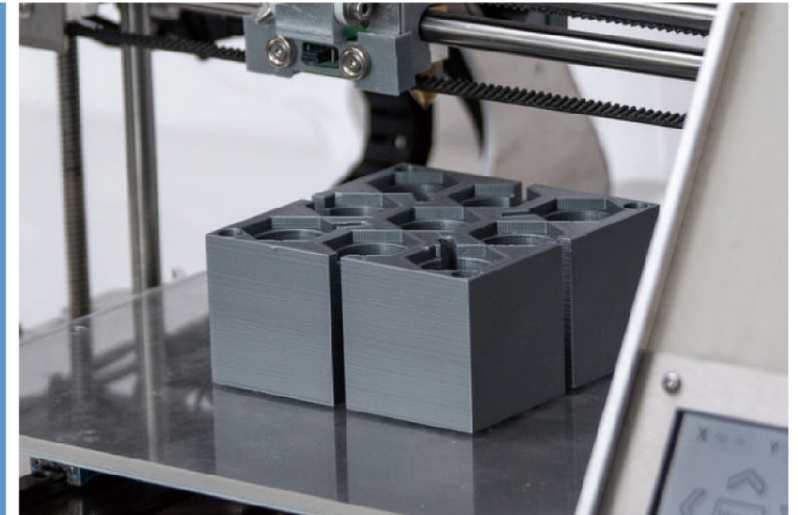
Achieve the goals of low-carbon environmental protection, and promote the sustainable development of society.

BIRCH SERIES/ Reinforced

3D Printing Filaments



- Functional Prototypes
- Auto Spare Parts
- Precision Components
- Sports Products
- Industrial Parts



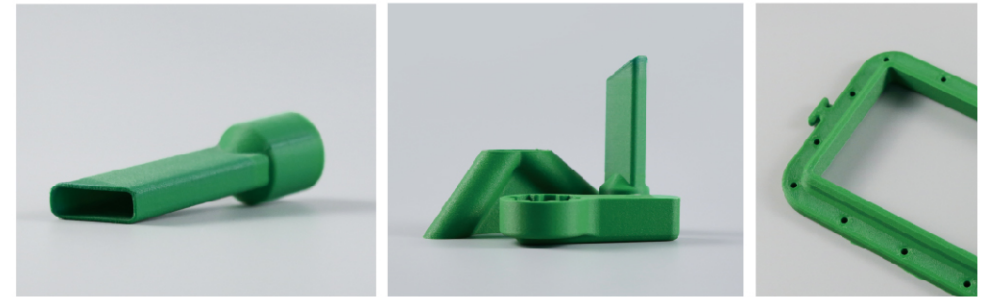
【英语JIANJU】 is the exclusive brand of POLYFUL in the 3D printing materials area, JIANJU provides customers with high-performance and modified 3D printing filaments.

Birch is a product series of JIANJU, which refers to the 3D printing solution of “Reinforced”, the Birch Series has excellent mechanical performance and printing quality, great tensile capacity and durability. The Birch Series is suitable for long-term stress applications.

COCOON PA-Birch EP052506(1)

COCOON PA-Birch is a glass fiber-reinforced PA6 consumable that can relatively enhance tensile strength.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	GB/T 1033	g/cm ³	1.31
Melt Flow Rate	235°C, 2.16kg	GB/T 3682	g/10min	4
Printed Specimen Performance				
Tensile Strength(X-Y)	50mm/min	GB/T 1040.2	MPa	76
Tensile Strength(Z)	50mm/min	GB/T 1040.2	MPa	12
Flexural Strength	2mm/min	GB/T 9341	MPa	141
Impact Strength, Notched	2.75J	GB/T 1843	kJ/m ²	45



COCOON PA-Birch EP052506(2)

COCOON PA-Birch is a glass fiber-reinforced PA6 consumable that can relatively increase rigidity, and has great wear and heat resistance.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	GB/T 1033	g/cm ³	1.31
Melt Flow Rate	235°C, 2.16kg	GB/T 3682	g/10min	4
Printed Specimen Performance				
Tensile Strength(X-Y)	50mm/min	GB/T 1040.2	MPa	62
Tensile Strength(Z)	50mm/min	GB/T 1040.2	MPa	11
Flexural Strength	2mm/min	GB/T 9341	MPa	121
Impact Strength, Notched	2.75J	GB/T 1843	kJ/m ²	20



COCOON PP-Birch EP012406

COCOON PP-Birch is a glass fiber-reinforced PP consumable (with 20% glass fiber added), which can effectively prevent warping and has great layer adhesion.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	GB/T 1033	g/cm ³	1.04
Melt Flow Rate	230°C,2.16kg	GB/T 3682	g/10min	13
Thermal Property				
HDT	0.45MPa	GB/T 1634	°C	145
Printed Specimen Performance				
Tensile Strength(X-Y)	5mm/min	GB/T 1040.2	MPa	65
Tensile Strength(Z)	5mm/min	GB/T 1040.2	MPa	11
Impact Strength, Notched	2.75J	GB/T 1843	kJ/m ²	11

 Diameter 1.75/2.85mm	 Weight 1/5kg	 Tolerance ±0.05mm	 Printing Temp. 235-260°C	 Board Temp. n.a.	 Printing Speed 40-100mm/s	 Specialized Build Plate from JIANYU
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COCOON PP-Birch EP015606

COCOON PP-Birch is a glass fiber-reinforced PP consumable (with 10% glass fiber added), which can effectively prevent warping and has a great surface effect.

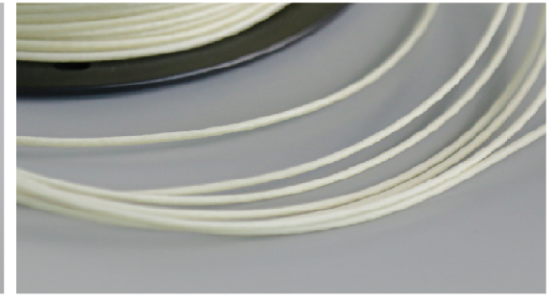
Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	GB/T 1033	g/cm ³	1.13
Melt Flow Rate	230°C,2.16kg	GB/T 3682	g/10min	15
Printed Specimen Performance				
Tensile Strength(X-Y)	50mm/min	GB/T 1040.2	MPa	27
Tensile Strength(Z)	50mm/min	GB/T 1040.2	MPa	11
Impact Strength, Notched	2.75J	GB/T 1843	kJ/m ²	5

 Diameter 1.75/2.85mm	 Weight 1/5kg	 Tolerance ±0.05mm	 Printing Temp. 235-260°C	 Board Temp. n.a.	 Printing Speed 40-100mm/s	 Specialized Build Plate from JIANYU
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Customized Exclusive Solutions

3D Printing Filaments



Compatible with FDM Printers

"JIANYU" 3D printing filaments have excellent physical and mechanical performance and can be easily processed into shape. They are compatible with current mainstream FDM 3D printers and can be used with the equipment's built-in build plate or the specialized build plate from JIANYU. There are no special requirements, and it has wide applicability.

Colors

A wide variety of colors, special colors, and surface effects are available for customization.



Packaging Styles



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