

JIANYU 3D Printing Filaments



Hangzhou Polyful Advanced Material Co., Ltd. Address: Building 2#, Jinpeng Road 358, Hangzhou, Zhejiang, P.R.C E-mail: zlsczx@polyful.cn Website: www.polyful.com

Hangzhou Polyful Advanced Material Co., Ltd., established in 2018, is a professional high-tech enterprise engaged in the research, development, production, and sales of high-end polymer products. POLYFUL specializes in developing, producing, and selling high-end polymer products, including compostable resins and products, 3D printing pellets and filaments, modified PPO, thermoplastic silicone elastomers, and modified engineering resins.

😔 莖語Jianiu | 3D Printing Brand Introduction

JIANYU is a dedicated brand of 3D printing materials under POLYFUL. Leveraging the technological advantages and expertise accumulation in polymer materials held by POLYFUL, as well as possessing independent core intellectual property rights and R&D production capabilities, JIANYU aims to serve the domestic and international additive manufacturing market by offering high-performance 3D printing filaments.

A technology-driven company specializing in advanced polymer research, production, and sales.

Committed to being a leader in the field 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.

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Packaging Styles



Compatible with FDM 3D printers, special colors and surface effects are available for customization

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 a specialized build plate from JIANYU. There are no special requirements, and it is widely applicable.

3D PRINTING MATERIAL

Low Shrinking Percen-

Easy to Form

Birch

High Rigidity Strength

High-strength

Glass

Fiber Reinforce-

Carbor

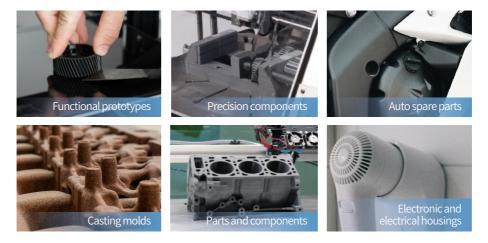
Fiber Reinforce

Great

Dimensional

Birch is a product series of JIANYU, 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.

Applications





COCOON PP-Birch(GF) EP012406

It is an enhanced PP material, solving problems of warping, layer adhesion and bed adhesion. It has the features of low warping, and strong layer adhesion. An easy-to-print PP maintains the typical PP benefits (high chemical resistance, recyclability possibilities, fracture resistance and semi-toughness). Also, it offers customizable color options. This material is ideal for 3D printing functional prototypes and mechanical parts for industry, automotive, mould components.

Testing Ite ms	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.04			
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	13			
Thermal Property							
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	145			
Printed Specimen Perfor	mance						
Tensile Strength(X-Y)	5mm/min	ISO 527-1	MPa	65			
Tensile Strength(Z)	5mm/min	ISO 527-1	MPa	11			
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	11			



Weight 1/5kg

±0.05mm

Tolerance Printing Temp. Board Temp. Printing Speed 235-260°C Not heated

60-100mm/s

Specialized Build Plate From JIANYU

Product and application display







COCOON PP-Birch(GF) EP015606

It is an enhanced PP material, solving problems of warping, layer adhesion and bed adhesion. It has the features of low warping, and good surface. An easy-to-print PP maintains the typical PP benefits (high chemical resistance, recyclability possibilities, fracture resistance and semi-toughness). Also, it offers customizable color options. This material is ideal for 3D printing functional prototypes and mechanical parts for industry, automotive, mould components.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.13		
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	15		
Thermal Property						
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	135		
Printed Specimen Perfor	mance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	27		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	11		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	5		



Weight 1/5kg

±0.05mm

Tolerance Printing Temp. Board Temp. Printing Speed 235-260°C Not heated

60-100mm/s

Specialized Build Plate From JIANYU

Product and application display







COCOON PA-Birch(GF) EP052506(1)

It is an enhanced PA6 material, with relatively improved tensile strength, suitable for 3D printing of industrial parts that require high strength and good wear resistance. Components printed with this material have good heat resistance and impact resistance.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.31			
Melt Flow Rate	235°C,2.16kg	ISO 1133	g/10min	4			
Printed Specimen Perfo	ormance						
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	93			
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	4500			
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	25			
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	1900			
Flexural Strength	2mm/min	ISO 178	MPa	142			
Flexural Modulus	2mm/min	ISO 178	MPa	4700			
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	22			
	N d						



Weight

Tolerance ±0.05mm Printing Temp. Board Temp. Printing Speed 280-300°C

40-70mm/s

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100°C

Product and application display

1/5kg





COCOON PA-Birch(GF) EP052506(3)

It is a PA12-based reinforced material with high rigidity and toughness, excellent creep resistance, and low water absorption. Parts printed using this material have high strength, abrasion resistance, low warping, low moisture absorption, outstanding toughness and fatigue resistance, etc. It can maintain effective mechanical properties and dimensional stability when used in long-term working environments. It can be widely used in mechanical engineering, electronics and electrical appliances, automobile manufacturing, aerospace, and other fields.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.2			
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	2.5			
Thermal Property							
Heat Deflection Temperature	1.8MPa	ISO 75-1	°C	105			
Printed Specimen Perfor							
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	63			
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	29			
Flexural Strength	2mm/min	ISO 178	MPa	67			
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Diameter 1.75/2.85mm

Weight 1/5kg

Tolerance ±0.05mm Printing Temp. Board Temp. Printing Speed 280-300°C 80-100°C

40-70mm/s

Product and application display



COCOON PA-Birch(GF) EP052506(4)

It is a 3D printing specialty filament primarily made from renewable natural plants, featuring high strength, high fluidity, low moisture absorption, low shrinkage, and low warping. Compared to traditional petroleum-based polyamides, its raw materials are renewable and offer better sustainability. Components printed with this material have excellent dimensional stability. This filament is suitable for printing structural parts with specific strength or environmental requirements, such as wind turbine blades, low-voltage electrical structural components, electric tools, gears, etc.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.23
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	7
Thermal Property				
Heat Deflection Temperature	1.8MPa	ISO 75-1	°C	180
Printed Specimen Perforn	nance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	99
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	42
Flexural Strength	2mm/min	ISO 178	MPa	155
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	16
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Diameter

1.75/2.85mm





±0.05mm

280-300°C

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80-100°C



Printing Temp. Board Temp. Printing Speed 40-70mm/s

Product and application display

1/5kg



COCOON PA-Birch(CF) EP059506

It is a carbon fiber reinforced heat-resistant PA6 filament that offers great heat resistance, impact resistance, oil and abrasion resistance, and electrical insulation. It has a heat deflection temperature of 190°C. The surface of the printed products has a good quality, presenting a matte and sand-like texture. It is suitable for use in 3D printed gears, bearings, pump impellers, fasteners, oil-resistant gaskets, and other industrial load-bearing structural parts or tooling fixtures.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.29
Melt Flow Rate	235°C,2.16kg	ISO 1133	g/10min	4
Thermal Property				
Heat Deflection Temperature	1.8MPa	ISO 75-1	°C	190
Printed Specimen Perfor	mance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	111
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	23
Flexural Strength	2mm/min	ISO 178	MPa	154
Flexural Modulus	2mm/min	ISO 178	MPa	5800
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	19
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Diameter 1.75/2.85mm









±0.05mm 1/5kg

280-300°C

40-70mm/s

Product and application display





COCOON PLA-Birch(CF) DP023106

It is a premium PLA carbon fiber composite material known for its high rigidity, refined texture, and ease of printing. It produces parts with an impressive texture characterized by a sand-like smooth surface, discreetly hidden layer lines, and a matte, pristine finish. It is outstanding for printing projects that demand both functionality and aesthetic appeal. It provides exceptional printing performance along with superior mechanical strength. It is particularly well-suited for producing items that feature pronounced surface effects, such as device enclosures, functional artistic creations, and prototypes for industrial product designs.

Testing	tems	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Pr	Physical Properties							
Densi	ty	23°C	ISO 1183	g/cm ³	1.25			
Melt Flow	/ Rate	190°C,2.16kg	ISO 1133	g/10min	4			
Printed Spe	Printed Specimen Performance							
Tensile Strer	ngth(X-Y)	50mm/min	ISO 527-1	MPa	62			
Tensile Stre	ength(Z)	50mm/min	ISO 527-1	MPa	35			
Flexural St	rength	2mm/min	ISO 178	MPa	93			
Impact Strengt	h, Notched	2.75J	ISO 179-1	kJ/m²	4.8			
				<u> </u>	(*)			

Diameter 1.75/2.85mm

 \odot Weight 1/5kg

Tolerance ±0.05mm

Printing Temp. Board Temp. Printing Speed 200-230°C 50-65°C

60-200mm/s

Product and application display







COCOON ABS-Birch(GF) EP062206

It is a glass fiber-reinforced ABS material that supports printing in an open environment. It offers a well-balanced combination of strength, rigidity, and warp resistance. With a heat resistance up to 82°C and a printing speed up to 200mm/s. It combines great mechanical properties, thermal stability, and printing efficiency. It is suitable for 3D printing applications that require certain levels of strength, rigidity, and heat resistance, such as jigs and fixtures, manufacturing tools, housings, and structural components.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.11
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	30
Thermal Property				
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	82
Printed Specimen Perfor	mance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	МРа	36
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	2650
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	20
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	1600
Elongation@Break	50mm/min	ISO 527-1	%	3
Flexural Strength	2mm/min	ISO 178	MPa	55
Flexural Modulus	2mm/min	ISO 178	MPa	2700
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	6
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Diameter 1.75/2.85mm Weight

Tolerance ±0.05mm

240-280°C (270°C is recommended)

Printing Temp. Board Temp. Printing Speed 90°C

SSSS

100-200mm/s

Product and application display

1/5kg





COCOON ABS-Birch(CF) EP063106

It is an ABS chopped carbon fiber composite material that achieves a precise balance in mechanical properties, printability, and surface quality. It features high strength, high rigidity, and the ability to suppress warping. Printed products are robust and durable with a matte, clean finish. Its excellent mechanical properties and outstanding surface quality make it suitable for 3D printing applications that require both strength and stiffness, such as tooling fixtures, manufacturing jigs, casings, and structural components.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.06		
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	20		
Thermal Property						
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	95		
Printed Specimen Perforn	nance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	55		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	27		
Flexural Strength	2mm/min	ISO 178	MPa	78		
Flexural Modulus	2mm/min	ISO 178	MPa	4250		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	5		
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1.75/2.85mm

Weight 1/5kg

±0.05mm

270-290°C

Printing Temp. Board Temp. Printing Speed 90-100°C



Product and application display





COCOON PETG-Birch(GF) EP082206

It is an enhanced PETG material with great fluidity and is easy to print and mold. Additionally, it exhibits low odor and excellent chemical resistance. The parts printed with this material are tough and durable, with good dimensional stability, presenting a matte and delicate frosted texture, which is suitable for printing structural parts or outdoor models with high anti-drop and impact resistance requirements.

Testing It	tems	Testing Conditions	Testing Metho	ods Units	Typical Values		
Physical Properties							
Densi	ty	23°C	ISO 1183	g/cm ³	1.33		
Melt Flow	Rate	250°C,5kg	ISO 1133	g/10min	10		
Printed Spe	ecimen Perf	ormance					
Tensile Strer	ngth(X-Y)	50mm/min	ISO 527-1	MPa	61		
Tensile Stre	ngth(Z)	50mm/min	ISO 527-1	MPa	19		
Flexural St	rength	2mm/min	ISO 178	MPa	84		
Impact Strengt	h, Notched	2.75J	ISO 179-1	kJ/m ²	6		
				<u> </u>			
Diameter	Weight	Tolerance	Printing Temp.	Board Temp.	Printing Speed		

250°C

60-70°C

60-150mm/s

Product and application display

1/5kg

±0.05mm



Colors

1.75/2.85mm



COCOON PETG-Birch(CF) EP083206

It is a PETG chopped carbon fiber composite filament that effectively reduces nozzle clogging, offers high strength and modulus, and is easy to print. The printed products have a glossy surface with hidden layer lines, and are resistant to yellowing, chemical corrosion, durable, environmentally friendly, and odorless. It supports open printing and achieves a precise balance of mechanical properties, printing performance, and surface quality. It is suitable for applications requiring high load-bearing capacity and rigidity, such as tooling fixtures, precision instrument housings, and structural components.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.31
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	5
Thermal Property				
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	71
Printed Specimen Perfor	mance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	69
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	4200
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	35
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	1800
Flexural Strength	2mm/min	ISO 178	MPa	98
Flexural Modulus	2mm/min	ISO 178	MPa	4950
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	5
•	b.d.	<u> </u>		



1.75/2.85mm





Printing Temp. Board Temp. Printing Speed 240-270°C

70°C



100-300mm/s

Product and application display





3D PRINTING MATERIAL

Fir

Flame-retardant

Fir is a product line of JIANYU, which provides a "Flame-retardant" solution for 3D printing filaments. It is impermeable and has a water absorption rate of less than 1% at room temperature. The material fulfills flame retardancy according to UL 94 V-0, and is suitable for parts that require flame-retardant properties.

Applications





COCOON ABS-Fir(FR) EP066305

It is a thermoplastic engineering material with flame-retardance. The high impact strength and strong interlayer adhesion make it an ideal material in printing plastic components of industrial machinery. The material fulfills flame retardancy according to UL 94 V-0 (@1.6mm), and it also has good mechanical and thermal properties.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values				
Physical Properties	Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.1				
Melt Flow Rate	230°C,2.16kg	ISO 1133	g/10min	27				
Flame-retardant Proper	ty							
Flame Class Rating	1.6mm	UL94	/	VO				
Printed Specimen Perfo	Printed Specimen Performance							
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	41				
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	23				
Flexural Strength	2mm/min	ISO 178	MPa	71				
Flexural Modulus	2mm/min	ISO 178	MPa	2266				
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	16				
			\$\$\$\$					



1.75/2.85mm



Tolerance ±0.05mm Printing Temp. Board Temp. Printing Speed 230-260°C

SSSS

80-100°C



60-150mm/s

Product and application display





COCOON ASA-Fir(FR) EP076405

It is a thermoplastic engineering material with flame-retardance. The material fulfills flame retardancy according to UL 94 V-0 (@2.0mm). It has high strength, low shrinkage, strong interlayer adhesion, and good toughness. The great performance in both UV resistance, water resistance and thermal stability make it an ideal material in printing complex, ready-to-use components, including final parts, fixtures, functional prototypes with demanding geometries, as well as large-scale leisure architecture and sculpture parts.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.28		
Melt Flow Rate	220°C,2.16kg	ISO 1133	g/10min	12		
Flame-retardant Proper	ty					
Flame Class Rating	1.6mm	UL94	/	V0		
Printed Specimen Perfo	rmance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	40		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	12		
Flexural Strength	2mm/min	ISO 178	MPa	70		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	66		
			\$\$\$\$			

Diameter 1.75/2.85mm

Tolerance Weight ±0.05mm 1/5kg

230-260°C

(#J Printing Temp. Board Temp. Printing Speed 80-100°C

60-150mm/s

Product and application display







Low Shrinking Percentage

Great Layer Adhesion

Low warping Easy to Form

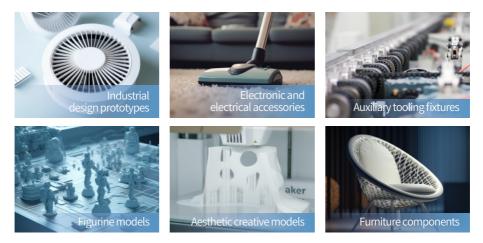
3D PRINTING MATERIAL

Vine

High-toughness

Vine is a product line of JIANYU, which provides a "Toughened " solution for 3D printing filaments. Its strength, durability, impact-resistance, and high bending-resistance provide greater design freedom, making it suitable for printing prototypes of mechanical parts with toughness and precision requirements.

Applications



COCOON PLA-Vine DP021001(2)

It is a bio-based and environmentally friendly filament with exceptional toughness and safety. It features low shrinkage, minimal warping, stable extrusion, and easy printability, presenting a semi-transparent, slightly translucent texture. It is suitable for 3D printing applications that require toughness and precision, such as aesthetic detail models or complex industrial design prototypes.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.24
Melt Flow Rate	190°C,2.16kg	ISO 1133	g/10min	5
Printed Specimen Perfo	ormance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	61
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	30
Flexural Strength	2mm/min	ISO 178	MPa	85
Flexural Modulus	2mm/min	ISO 178	MPa	2800
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	5
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1.75/2.85mm





190-220°C



Printing Temp. Board Temp. Printing Speed 50-65°C



Product and application display

1/5kg





COCOON ABS-Vine EP061001

It is a high toughness ABS material, which can effectively resist external impacts, it has high heat distortion temperature, and good stability performance in high-temperature environments. The material has good fluidity and is easy for printing. The excellent mechanical and thermal properties of this material provide reliable support for the material to be widely used in the manufacturing of automotive parts, white goods, consumer electronics and toys for educational use.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.05		
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	17		
Thermal Property	Thermal Property					
Heat Deflection Temperature	1.8MPa	ISO 75-1	°C	90		
Printed Specimen Perform	nance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	48		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	21		
Flexural Strength	2mm/min	ISO 178	MPa	67		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	32		
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Diameter

1.75/2.85mm



Tolerance ±0.05mm

230-260°C



Printing Temp. Board Temp. Printing Speed 80-100°C

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60-150mm/s

Product and application display

1/5kg





COCOON ABS-Vine(HS) EP061010(1)

It is high-toughness ABS filaments supporting high-speed and open printing. With high fluidity and low heat capacity, it can realize the rapid melting and cooling of the material, effectively maintaining the details of the effect of high-speed printing. Printing speed in high-speed printers can reach a maximum of 500mm/s, in the play of the excellent mechanical properties of the ABS and reliable dimensional stability at the same time taking into account the efficiency and quality for the rapid manufacture of functional parts. It provides dedicated support for rapid manufacturing of functional components and auxiliary fixtures.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties	Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.05			
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	90			
Printed Specimen Perf	Printed Specimen Performance						
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	41			
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	24			
Flexural Strength	2mm/min	ISO 178	MPa	49			
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	18			







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Diameter 1.75/2.85mm

Weight 1/5kg

Tolerance ±0.05mm Printing Temp. Board Temp. 260-290°C 80-90°C

Printing Speed 100-500mm/s

Product and application display



COCOON ABS-Vine(HS) EP061010(2)

It is an ABS material supporting high-speed and open printing. With high fluidity and low heat capacity, it can realize the rapid melting and cooling of the material, effectively maintaining the details of the effect of high-speed printing. Printing speed in high-speed printers can reach a maximum of 200mm/s. The heat-resistant temperature of the printed parts can reach 80~82°C, taking into account the printing efficiency, printing performance, heat-resistant performance and convenience of operation. At the same time, it has excellent mechanical properties and reliable dimensional stability. It is widely used in toys and blocks, electronic and electrical shell parts, industrial parts and fixtures.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.11		
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	150		
Printed Specimen Perfo	Printed Specimen Performance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	45		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	26		
Flexural Strength	2mm/min	ISO 178	MPa	63		
Flexural Modulus	2mm/min	ISO 178	MPa	2200		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	4		
	b.d.					









SSSS

80-90°C



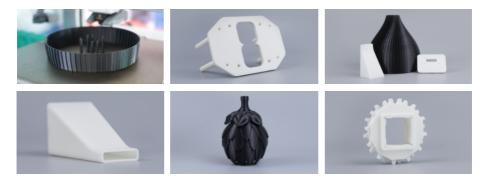
Weight 1.75/2.85mm 1/5kg

Tolerance ±0.05mm

260-290°C

Printing Temp. Board Temp. Printing Speed 100-200mm/s

Product and application display





COCOON ASA-Vine(HS) EP071010(1)

It is a high-speed printing ASA material with a maximum printing speed of 300mm/s and supports open printing. It offers high fluidity, enabling easy printing while maintaining fine details and smooth surfaces even at high speeds. The printed components exhibit excellent impact resistance, weather resistance, anti-yellowing, aging resistance, as well as good anti-cracking and warping resistance. They are durable and suitable for end products with specific weather resistance requirements such as automotive interior parts, garden furniture, and outdoor leisure buildings.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm ³	1.06
Melt Flow Rate	220°C,10kg	ISO 1133	g/10min	35
Printed Specimen Perfo	ormance			
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	40
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	1900
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	23
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	1700
Flexural Strength	2mm/min	ISO 178	MPa	52
Flexural Modulus	2mm/min	ISO 178	MPa	2000
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	30
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90°C



Diameter 1.75/2.85mm



Tolerance ±0.05mm

Printing Temp. Board Temp. Printing Speed 270°C

100-300mm/s

Product and application display





COCOON ASA-Vine EP072206(2)

It is an easy-to-print series of filaments that features high strength, high rigidity, weather resistance, anti-yellowing, anti-aging, and corrosion resistance. It is easy to print, with low risk of cracking and warping, and supports an open printing environment. The printed items are strong and sturdy, with a matte frosted surface texture, making it suitable for end-use parts that require certain strength or weather resistance, such as automotive interior parts, garden furniture, and outdoor recreational facilities.

Testing Items		Testing Conditions	Testing Methods	Units	Typical Values
Physical Properti	ies				
Density		23°C	ISO 1183	g/cm ³	1.17
Melt Flow Rate		220°C,10kg	ISO 1133	g/10min	10
Printed Specime	n Perfc	rmance			
Tensile Strength(X	-Y)	50mm/min	ISO 527-1	MPa	45
Tensile Modulus(X	-Y)	50mm/min	ISO 527-1	MPa	3300
Tensile Strength(2	Z)	50mm/min	ISO 527-1	MPa	22
Tensile Modulus(2	Z)	50mm/min	ISO 527-1	MPa	2000
Flexural Strength	۱	2mm/min	ISO 178	MPa	63
Flexural Modulus	S	2mm/min	ISO 178	MPa	3300
Impact Strength, Not	ched	2.75J	ISO 179-1	kJ/m²	5
				\$\$\$\$	

Diameter 1.75/2.85mm Weight 1/5kg

Tolerance ±0.05mm

260°C

90-100°C

(#) Printing Temp. Board Temp. Printing Speed 100-200mm/s

Product and application display





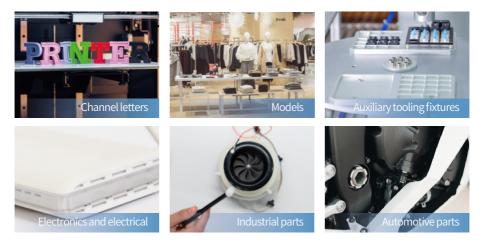
3D PRINTING MATERIAL

Cactus

Heat-resistant

Cactus is a product line of JIANYU, which provides a "Heat-resistant" solution for 3D printing filaments. With the characteristics of high heat deformation temperature, low warpage, and low shrinkage, it is an ideal choice for models, household appliances, and electrical enclosures.

Applications





COCOON PLA-Cactus(HT) DP024202

It is a bio-based environmentally friendly material with high temperature resistance, extremely low warpage and shrinkage, and non-toxicity. It has no odor or dust is produced during the printing process. It is also characterized by ease of printing and molding, good heat resistance, dimensional stability, and a matte texture. It is suitable for industrial components, jigs and fixtures, and channel letters materials that require higher printing accuracy.

Testing	tems	Testing Conditions	Testing Methods	Units	Typical Values	
Physical Pro	Physical Properties					
Dens	ity	23°C	ISO 1183	g/cm ³	1.24	
Melt Flov	v Rate	190°C,2.16kg	ISO 1133	g/10min	6	
Printed Spe	Printed Specimen Performance					
Tensile Stre	ngth(X-Y)	50mm/min	ISO 527-1	MPa	42	
Tensile Stre	ength(Z)	50mm/min	ISO 527-1	MPa	25	
Flexural St	trength	2mm/min	ISO 178	MPa	81	
Impact Streng	th, Notched	2.75J	ISO 179-1	kJ/m ²	5	
Innul	\frown	<u>, M</u>	rfb (



1.75/2.85mm





±0.05mm



200-230°C





Printing Temp. Board Temp. Printing Speed 65°C 60-200mm/s

Product and application display

1/5kg

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COCOON PLA-Cactus(HT) DP024402

This product is an eco-friendly PLA material with high heat resistance. It significantly surpasses standard PLA in temperature endurance, long-term heat-resistant temperature of the printed parts can reach 70°C without needing annealing. This material boasts low warpage and shrinkage, ensuring high dimensional stability and superior bending properties. It is biodegradable under suitable conditions. The stable printing performance makes it easy to shape, and its distinctive matte texture makes it an excellent substitute for regular PLA. It is ideal for models, luminous signs/ characters, and other projects that demand environmental heat resilience.

Testing	tems	Testing Conditions	Testing Methods	Units	Typical Values
Physical Pro	perties				
Densi	ty	23°C	ISO 1183	g/cm ³	1.4
Melt Flow	/ Rate	190°C,2.16kg	ISO 1133	g/10min	12
Printed Spe	cimen Perfo	ormance			
Tensile Strer	ngth(X-Y)	50mm/min	ISO 527-1	MPa	45
Tensile Stre	ength(Z)	50mm/min	ISO 527-1	MPa	23
Flexural St	rength	2mm/min	ISO 178	MPa	71
Impact Strengt	h, Notched	2.75J	ISO 179-1	kJ/m ²	5
				<u>\$\$\$\$\$</u>	
Diameter 1.75/2.85mm	Weight 1/5kg	Tolerance P ±0.05mm	rinting Temp. Bo 220-260°C	oard Temp. 65°C	Printing Speed 60-200mm/s
Product and application display					
Comparing the heat resistance effect of the boat model after placing it in an oven at 100°C for 4 minutes under non-load conditions.					



The boat model is printed at a 15% infill.

COCOON PET-Cactus(HTCF) EP099306

荃语Jianji

It is a carbon fiber reinforced, heat-resistant consumable, offering an "enhanced, heat-resistant" solution for 3D printed PET materials. It boasts a heat deflection temperature of up to 190°C without the need for annealing or waiting. This consumable also features high heat resistance, high strength, high stiffness, and high creep resistance, along with good fluidity and stable extrusion performance. The printed products have a matte and sand-like smooth surface, with high heat resistance and mechanical strength. They are waterproof, have excellent chemical resistance, and combine outstanding mechanical properties with good dimensional stability, making them widely applicable in functional components, load-bearing structures, and auxiliary tooling fixtures for 3D printing scenarios involving long-term loads.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.37		
Melt Flow Rate	250°C,5kg	ISO 1133	g/10min	18		
Thermal Property						
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	200		
Printed Specimen Perfor	Printed Specimen Performance					
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	98		
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	6000		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	32		
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	1800		
Flexural Strength	2mm/min	ISO 178	MPa	138		
Flexural Modulus	2mm/min	ISO 178	MPa	6200		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m ²	9.2		
	.M	сſh				





Tolerance

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Weight 1.75/2.85mm 1/5kg

±0.05mm

280-300°C

Printing Temp. Board Temp. Printing Speed 60-100mm/s

80-100°C

SSSS

Product and application display





Especial Special-purpose

It is a product series of JIANYU, which aims to provide "especial" solutions for 3D-printed small-scene applications. The product series includes various material solutions, such as anti-static and flexible purposes. For example, anti-static materials have excellent static resistance performance and are used to replace traditional processes of making anti-static class work or equipment parts; special elastomer materials are skin-friendly and suitable for use as a structural component or secondary wrapping in medical support scenarios.

Applications





COCOON PA-Especial(ESD) EP052509(1)

It is an antistatic modified nylon material with excellent static resistance performance, its volume resistance can reach 10[^]8 Ω. with high strength, high toughness, and long-term heat resistance. It also has good processing performance and is easy to print. When used in long-term high-temperature working environments, it maintains good mechanical properties and dimensional stability, and is suitable for industrial parts with anti-static protection requirements, such as shielding casings of electronic equipment and turnover boxes for precision electronic components.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values	
Physical Properties					
Density	23°C	ISO 1183	g/cm ³	1.32	
Melt Flow Rate	235°C, 2.16kg	ISO 1133	g/10min	5	
Thermal Property					
Heat Deflection Temperature	1.8MPa	ISO 75-1	°C	180	
Electrical Properties					
Volume Resistance	25°C, 50%RH	IEC 62631-3-1:2016	Ω	10^8	
Printed Specimen Perfor	mance				
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	53	
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	23	
Flexural Strength	2mm/min	ISO 178	MPa	51	
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	35	
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Diameter 1.75/2.85mm Weight Tolerance 1/5kg ±0.05mm

Printing Temp. Board Temp. Printing Speed 260-290°C 80-100°C

SSSS

40-70mm/s

Product and application display





COCOON PA-Especial(ESD) EP051009

It is an anti-static modified nylon material based on PA12, with a volume resistivity of $10^{6}-10^{7}\Omega$, offering good anti-static performance that effectively prevents the generation and accumulation of static electricity. It is characterized by low density, high toughness, and high impact resistance, with a lower water absorption rate and better dimensional stability than other nylon materials. This material is specifically developed for industrial applications that require anti-static protection and is suitable for 3D printing electronic devices such as printed circuit boards, shielding enclosures, and precision electronic component storage boxes.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties						
Density	23°C	ISO 1183	g/cm ³	1.06		
Melt Flow Rate	230°C, 2.16kg	ISO 1133	g/10min	5		
Electrical Properties						
Volume Resistance	25°C, 50%RH	IEC 62631-3-1:2016	Ω	10^6-10^7		
Injection-Molded Spe	Injection-Molded Specimen Performance					
Tensile Strength	5mm/min	ISO 527-1	MPa	30		
Elongation@Break	5mm/min	ISO 527-1	%	300		
Flexural Strength	5mm/min	ISO 178	MPa	35		
Flexural Modulus	5mm/min	ISO 178	MPa	800		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	Ν		
			\$\$\$\$			



Diameter

1.75/2.85mm



1/5kg



±0.05mm

Printing Temp. Board Temp. Printing Speed 250-290°C 80-100°C



40-70mm/s

Product and application display





COCOON PP-Especial EP011001 (1)

It is a flexible 3D printing filament based on polypropylene (PP) with Shore A 85. It has excellent processing performance. Compared to other flexible printing materials of the same hardness, it is easier to extrude and print. The printed parts are dimensionally stable, have low warping and shrinkage, and exhibit high interlayer adhesion. The printed parts are lightweight, low-density, high-toughness, high-elastic, and fatigue-resistant. They are also soft and skin-friendly, providing a comfortable touch. Additionally, it has excellent resistance to chemicals, weathering, high and low temperatures. It is suitable for 3D printing applications that require both toughness and strength, as well as texture and durability, such as medical fixation braces, industrial cushioning pads, and everyday protective covers.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	0.9			
Melt Flow Rate	235°C, 2.16kg	ISO 1133	g/10min	15			
Shore A	23°C	-	-	85			
Injection-Molded Specimen Performance							
Tensile Strength	500mm/min	ISO 37	MPa	10			
Elongation@Break	500mm/min	ISO 37	%	450			
Stress at 100 % Elongation	500mm/min	ISO 37	MPa	5.5			
Stress at 300 % Elongation	500mm/min	ISO 37	MPa	8			
Tear Strength	500mm/min	ISO 34-1	kN/m	60			
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Product and application display



COCOON TPU-Especial EP101001

It is a flexible 3D printing material with Shore A 75, combining the characteristics of TPU and rubber. This material boasts exceptional flowability. The printed parts exhibit a high resilience, low compression rate, and excellent fatigue resistance. Additionally, they are resistant to aging, UV rays, and corrosion, demonstrating flexibility and wear resistance. Given its high rebound requirement, TP-3375 is ideal for printing flexible industrial parts meant for impact absorption, such as liners, seals, and shock absorbers. Moreover, the printed objects possess a matte, sandblasted texture with a delicate and smooth touch, offering a skin-friendly experience. They also achieve strong adhesion with engineering materials like PC and ABS, making it suitable for wearable electronics, medical supports, footwear, and automotive interiors.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.11			
Melt Flow Rate	235°C, 2.16kg	ISO 1133	g/10min	25			
Thermal Property							
Shore A	23°C	-	-	75			
Injection-Molded Specimen Performance							
Tensile Strength	500mm/min	ISO 37	MPa	16			
Elongation@Break	500mm/min	ISO 37	%	640			
Stress at 100 % Elongation	500mm/min	ISO 37	MPa	5			
Stress at 300 % Elongation	500mm/min	ISO 37	MPa	7			
Tear Strength	500mm/min	ISO 34-1	kN/m	60			
Compression Set	23°C, 22h	ISO 815	%	25			
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1.75/2.85mm





230°C

SSSS

40-50°C

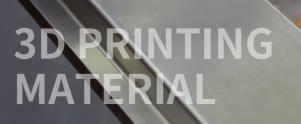


Printing Temp. Board Temp. Printing Speed 20-30mm/s

Product and application display

1/5kg





Compliant with FDA Standards

Palm

Food-

contact

Food-contact

Hightoughness Sturdy

and

Durable

Palm is a product series of JIANYU, which provides "Food-contact" solution for 3D printing filaments. This product series is safe and non-toxic, complies with FDA food-contact material testing regulations. It is ideal for printing durable, high-toughness parts with food-contact requirements.

Safe and

Non-Toxic

Applications





COCOON PLA-Palm DP021008

It is a bio-based degradable material that complies with FDA standards for food-contact materials. It is characterized by wide applicability, high rigidity, high toughness, extremely low warpage and shrinkage, and easy printability. It is suitable for printing equipment components and fixtures with food-contact requirements.

Testing Items		Testing Conditions	Testing Methods	Units	Typical Values		
Physical Properties							
Den	sity	23°C	ISO 1183	g/cm ³	1.24		
Melt Flo	w Rate	190°C,2.16kg	ISO 1133 g/10min		6		
Printed Sp	Printed Specimen Performance						
Tensile Str	ength(X-Y)	5mm/min	ISO 527-1	MPa	50		
Tensile Strength(Z)		5mm/min	ISO 527-1	MPa	23		
Flexural	Strength	2mm/min	ISO 178	MPa	85		
Impact Strength, Notched		2.75J	ISO 179-1	kJ/m ²	5		
				5555			

Diameter 1.75/2.85mm







190-220°C

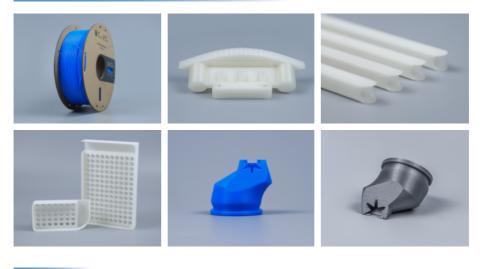


50°C

Printing Temp. Board Temp. Printing Speed 40-100mm/s

Product and application display

1/5kg



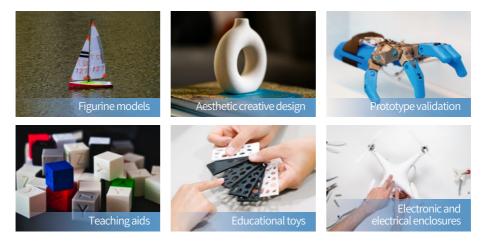




Basic

Basic is a product series of JIANYU, which provides entry-level printing consumables for general printing scenarios. It features broad adaptability, excellent printing performance, a rich selection of colors, and is safe and non-toxic. It is the preferred material for 3D printed figurines, aesthetic creative designs, and prototype verifications.

Applications





COCOON PLA-Basic DP021001(1)

It is an entry-level printing material that is easy to print, mold, offers a rich selection of colors, and has broad adaptability. It is safe and non-toxic, making it the preferred material for 3D printing figurines, aesthetic creative designs, and prototype verifications.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values			
Physical Properties							
Density	23°C	ISO 1183	g/cm ³	1.24			
Melt Flow Rate	190°C,2.16kg	ISO 1133	g/10min	6			
Printed Specimen Performance							
Tensile Strength(X-Y)	5mm/min	ISO 527-1	MPa	50			
Tensile Strength(Z)	5mm/min	ISO 527-1	MPa	25			
Flexural Strength	2mm/min	ISO 178	MPa	85			
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	5			
			\$\$\$\$				



1.75/2.85mm



M Tolerance ±0.05mm

Printing Temp. Board Temp. Printing Speed 190-220°C 50-60°C



60-200mm/s

Product and application display

1/5kg







COCOON PETG-Basic EP081001

It is a transparent 3D printing material characterized by high fluidity, excellent chemical resistance, balanced performance, and ease of printability. Parts printed with this material exhibit good toughness, low warpage, high surface gloss, and refined translucency. They are resistant to chemical corrosion, weathering, and yellowing, while also being eco-friendly and free of Bisphenol A. This material is suitable for 3D printing applications requiring enhanced toughness and impact resistance, aesthetic models with specific surface quality demands, household appliance accessories, electronic product components, cosmetic containers, and more.

Testing	g Items	ns Testing Cond		Testing M	lethods	Units	Typical Values
Physical Properties							
Der	Density		23°C ISO 1183		g/cm ³	1.28	
Thermal Pr	operty						
Heat Deflection	n Temperature	0.45MP	а	ISO 7	5-1	°C	75
Printed Spe	ecimen Perforn	nance					
Tensile Str	Tensile Strength(X-Y)		50mm/min		27-1	MPa	58
Tensile St	Tensile Strength(Z)		nin	ISO 52	27-1	MPa	31
Flexural	Flexural Strength		iin	ISO 1	178	MPa	81
Flexural	Flexural Modulus		iin	ISO 1	178	MPa	2200
Impact Strength, Notched		2.75J		ISO 1	79-1	kJ/m²	4
			Ę		<u> </u>	5	
Diameter	Weight	Tolerance	Printin	g Temp.	Board 1	Temp.	Printing Speed

Jiameter 1.75/2.85mm

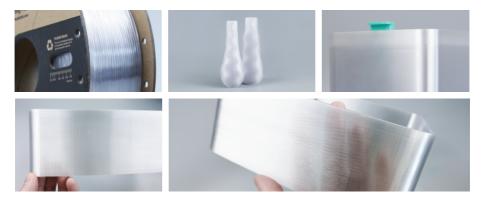
Weight 1/5kg

±0.05mm

ung remp 250°C

r mung sp 75°C 60-150mm/s

Product and application display





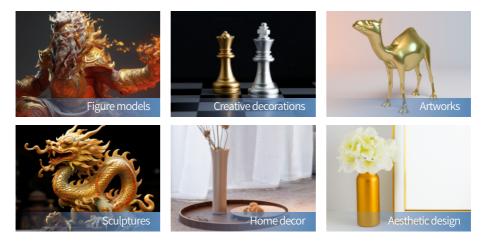
3D PRINTING MATERIAL

Mineral



Mineral is a product series of JIANYU, which provides aesthetic printing consumables for general printing scenarios. It provides a metallic luster and silky texture without requiring painting or polishing. It is safe, energy-efficient, and environmentally friendly, with excellent printing performance and a rich selection of colors. It is the preferred material for 3D printed aesthetic creative designs and artistic ornaments.

Applications





COCOON PLA-Mineral DP021015GN001

It is a PLA material with a silky texture, offering great impact resistance and easy to print. The printed parts feature bright, glossy colors and a fine, smooth surface, achieving a metallic luster and silky texture without the need for painting or polishing. It is fast, safe, energy-efficient, and eco-friendly, making it ideal for aesthetic creative designs, artwork, sculptures, and figurines that require a high-quality surface finish in 3D printing applications.

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values		
Printed Specimen Performance						
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	63		
Tensile Modulus(X-Y)	50mm/min	ISO 527-1	MPa	2700		
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	22		
Tensile Modulus(Z)	50mm/min	ISO 527-1	MPa	2500		
Flexural Strength	2mm/min	ISO 178	MPa	87		
Flexural Modulus	2mm/min	ISO 178	MPa	2700		
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	15		



1.75/2.85mm



Tolerance ±0.05mm

190-220°C



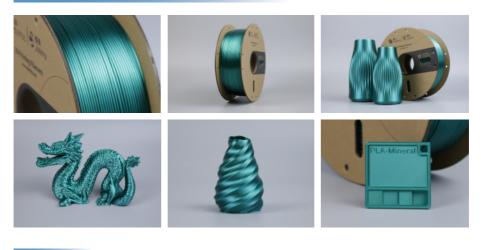
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50-65°C

Printing Temp. Board Temp. Printing Speed 60-200mm/s

Product and application display

1/5kg





COCOON PLA-Mineral DP021015CY001

It is a PLA material with a silky texture and an imitation copper metallic luster, offering great impact resistance, high rigidity, and ease of printing. The printed parts feature bright, glossy colors and a fine, smooth surface, achieving an imitation copper metallic luster and silky texture without the need for painting or polishing. It is fast, safe, energy-efficient, and eco-friendly, making it ideal for aesthetic creative designs, artwork, sculptures, and figurines that require a high-quality surface finish in 3D printing applications.

Testing Items		Testing Conditions	Testing Methods	Units	Typical Values		
Printed Specimen Performance							
Tensile Strength(X-Y)		50mm/min	ISO 527-1	MPa	65		
Tensile Mo	dulus(X-Y)	50mm/min	ISO 527-1	MPa	2800		
Tensile St	rength(Z)	50mm/min	ISO 527-1	MPa	32		
Tensile M	Tensile Modulus(Z)		ISO 527-1	MPa	2500		
Flexural Strength		2mm/min	ISO 178	MPa	92		
Flexural Modulus		2mm/min	ISO 178	MPa	2700		
Impact Strength, Notched		2.75J	ISO 179-1	kJ/m ²	3		
Thermal Pr	Thermal Property						
Heat Deflection Temperature		0.45MPa	ISO 75-1	°C	57		
				SSSS			

Diameter 1.75/2.85mm





±0.05mm

Printing Temp. Board Temp. Printing Speed 190-240°C





50-65°C

60-200mm/s

Product and application display

1/5kg



