JIANYU 3D Printing
Filaments

Hangzhou Polyful Advanced Material Co., Ltd.
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INTRODUCTION

聚丰 POLYFUL | Company Introduction

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.

莹语 JianYu | 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.

Silky Texture

Metallic Luster

Impact-resistant

Colorful

Easy to Print

Safe and Eco-friendly

3D PRINTING MATERIAL

Mineral

Silk

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

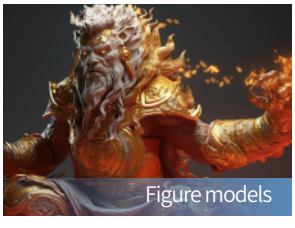
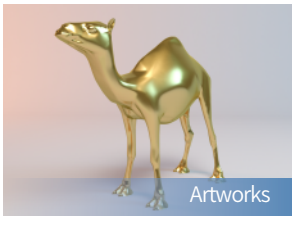


Figure models


Creative decorations


Artworks


Sculptures


Home decor


Aesthetic design

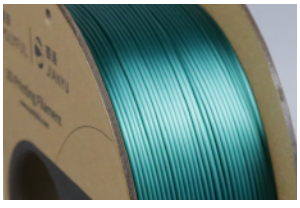
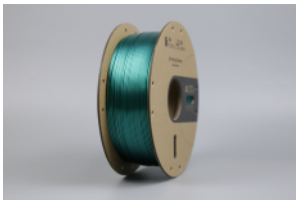
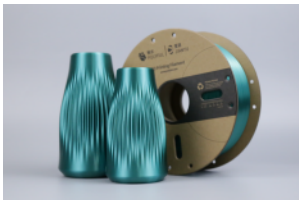
COCOON PLA-Mineral DP021015GN001

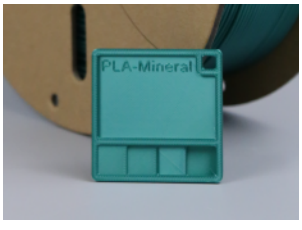
It is a PLA material with a silky texture, offering great impact resistance and easy to print. The printed parts feature bright, glossy colors and a fine, smooth surface, achieving a metallic luster and silky texture without the need for painting or polishing. It is fast, safe, energy-efficient, and 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/m^2	15

Diameter	Weight	Tolerance	Printing Temp.	Board Temp.	Printing Speed
1.75/2.85mm	1/5kg	±0.05mm	190-220°C	50-65°C	60-200mm/s

Product and application display

Colors

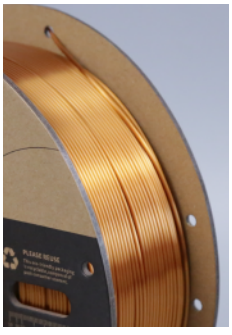
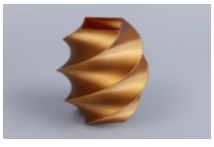
COCOON PLA-Mineral DP021015CY001

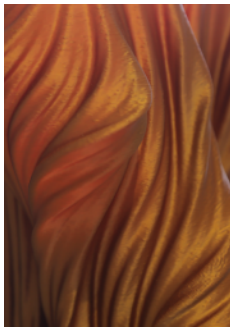
It is a PLA material with a silky texture and an imitation copper metallic luster, offering great impact resistance, high rigidity, and ease of printing. The printed parts feature bright, glossy colors and a fine, smooth surface, achieving an imitation copper metallic luster and silky texture without 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 Modulus(X-Y)	50mm/min	ISO 527-1	MPa	2800
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	32
Tensile Modulus(Z)	50mm/min	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 Property				
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	57

Diameter	Weight	Tolerance	Printing Temp.	Board Temp.	Printing Speed
1.75/2.85mm	1/5kg	±0.05mm	190-240°C	50-65°C	60-200mm/s

Product and application display




Colors