



# JIANYU 3D Printing Filaments



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## 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.



## 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.



Food-contact

Compliant with FDA Standards

Safe and Non-Toxic

High-toughness

Sturdy and Durable

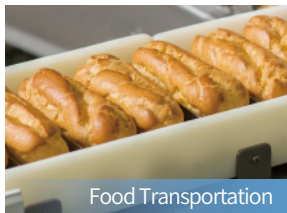
# 3D PRINTING MATERIAL

## Palm

### Food-contact

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.

#### 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
<b>Physical Properties</b>				
Density	23°C	ISO 1183	g/cm <sup>3</sup>	1.24
Melt Flow Rate	190°C, 2.16kg	ISO 1133	g/10min	6
<b>Printed Specimen Performance</b>				
Tensile Strength(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 <sup>2</sup>	5



**Diameter**  
1.75/2.85mm



**Weight**  
1/5kg



**Tolerance**  
±0.05mm



**Printing Temp.**  
190-220°C

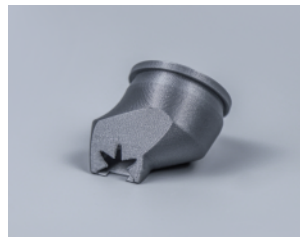
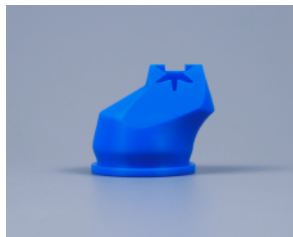
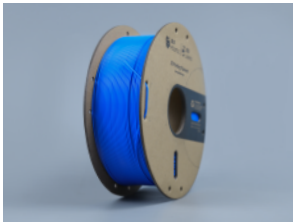


**Board Temp.**  
50°C



**Printing Speed**  
40-100mm/s

## Product and application display



## Colors

