JIANYU 3D Printing
Filaments

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.

Entry-Level

Easy to Print

Colorful

Safe and Non-Toxic

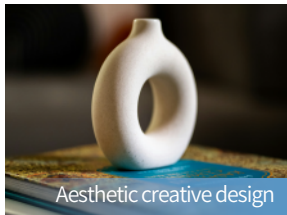**Widely Applicable**

3D PRINTING
MATERIAL

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.
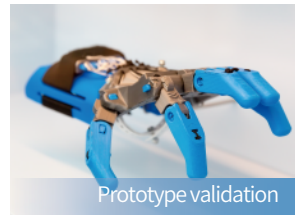
Applications

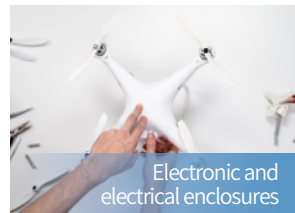Figurine models

Aesthetic creative design

Prototype validation

Teaching aids

Educational toys

Electronic and electrical enclosures

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/cm³	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

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

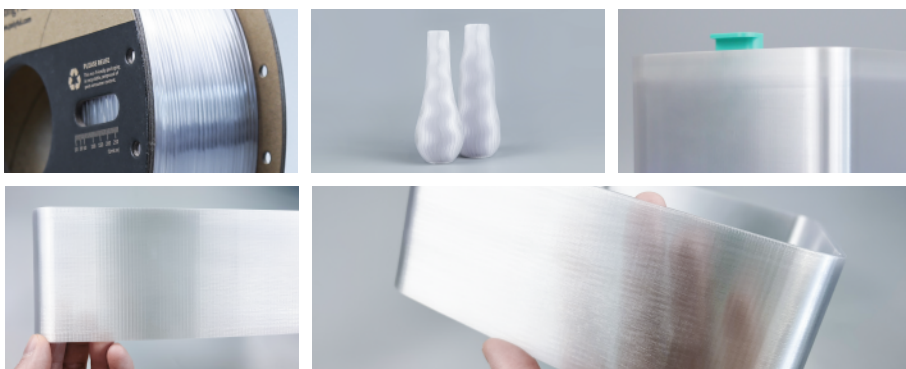## Product and application display

Colors

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 Items	Testing Conditions	Testing Methods	Units	Typical Values
Physical Properties				
Density	23°C	ISO 1183	g/cm³	1.28
Thermal Property				
Heat Deflection Temperature	0.45MPa	ISO 75-1	°C	75
Printed Specimen Performance				
Tensile Strength(X-Y)	50mm/min	ISO 527-1	MPa	58
Tensile Strength(Z)	50mm/min	ISO 527-1	MPa	31
Flexural Strength	2mm/min	ISO 178	MPa	81
Flexural Modulus	2mm/min	ISO 178	MPa	2200
Impact Strength, Notched	2.75J	ISO 179-1	kJ/m²	4

Diameter 1.75/2.85mm | **Weight** 1/5kg | **Tolerance** ±0.05mm | **Printing Temp.** 250°C | **Board Temp.** 75°C | **Printing Speed** 60-150mm/s

Product and application display

Colors