

FLASHFORGE FF-Pro

FLASHFORGE Chameleon PLA 3D Printer Filament (Burnt Titanium, 1.75mm) Instruction Manual

Comprehensive instruction manual for FLASHFORGE Chameleon PLA 1.75mm filament in Burnt Titanium, covering setup, printing parameters, maintenance, and troubleshooting for FDM 3D printers.

1. INTRODUCTION

This manual provides essential information for the proper use and maintenance of FLASHFORGE Chameleon PLA 3D Printer Filament. This filament is designed for FDM 3D printers and features a unique color-shifting effect, changing appearance with light and viewing angles. The material is Polylactic Acid (PLA), known for its ease of use and environmental considerations.



Image 1.1: A spool of Burnt Titanium Chameleon PLA filament alongside a finished 3D printed dragon model, showcasing the color-shifting effect.

2. PRODUCT FEATURES

- **Toughness PLA Filament:** Offers enhanced ease of use, optimized printing quality, and minimal shrinkage. Provides improved toughness and stability for functional projects.
- **Clog-Free & Bubble-Free:** Manufactured using clog-resistant methods to ensure consistent and steady printing. Thoroughly dried for 24 hours before packaging and vacuum sealed with desiccant to protect against moisture.
- **Tangle-Free Design:** Features automatic winding with supplementary manual detection to ensure a tidy line and reduce tangles, preventing potential snagging and line breakage.
- **Wide Compatibility:** Offers enhanced flowability and is compatible with approximately 99% of FDM 3D printers available on the market.
- **High Printing Performance:** Designed for detailed printing, ensuring consistent color, dimensional accuracy, and minimizing issues such as warping, jamming, or layer delamination.

- **Environmentally Friendly:** Derived from corn grain, this material is non-toxic and produces low odor, making it suitable for various environments.

Stunning Visual, Glossy Finish!

Chameleon powder adds a glittery texture to models while maintaining a dark yet captivating color.



Image 2.1: An array of FLASHFORGE Chameleon PLA filament spools and printed objects, highlighting the glossy finish and dynamic color properties.



Easy to Print



Non-toxic and Low Odor



Safe to Use



Surface Smooth



Good Adhesion



Durable Packing

3. SETUP AND PREPARATION

Proper handling and preparation of your filament are crucial for successful 3D printing results.

3.1 Unpacking and Storage

The filament is vacuum-sealed with a desiccant packet to protect it from moisture during transit and storage. Upon opening, it is recommended to store any unused filament in a dry, cool environment, preferably in its original vacuum-sealed bag or an airtight container with desiccant to maintain its quality.



Image 3.1: Overview of the filament's professional packaging, illustrating the desiccant, vacuum seal, and protective box.

4. OPERATING INSTRUCTIONS

This Chameleon PLA filament is compatible with most FDM 3D printers. The following parameters are recommended as a starting point for optimal printing performance. Adjustments may be necessary based on your specific printer model and environmental conditions.

4.1 Recommended Printing Parameters

Parameter	Recommended Value
Filament Diameter	1.75 mm
Dimensional Tolerance	± 0.02 mm
Printing Temperature	190-220°C
Hotbed Temperature	25-60°C
Printing Speed	40-200 mm/s
Nozzle Dimension	≥0.2 mm



Image 4.1: A detailed view of a printed object demonstrating the filament's dynamic color-changing properties, with key printing parameters overlaid.



Image 4.2: A sample print demonstrating the high quality achievable with this filament, including smooth surfaces and hidden layer lines.

4.2 Compatibility

The FLASHFORGE Chameleon PLA filament is designed for broad compatibility with FDM 3D printers. Its enhanced flowability ensures smooth operation across various machine types.




Professional Filament Manufacturer
Buy with confidence

9000m²
Occupied area

2000 Tons/Year
Production capacity

30
Automated production lines

30-Day Assure
For your satisfaction




Image 4.3: An illustration of various FLASHFORGE 3D printers, indicating the filament's wide compatibility.

5. MAINTENANCE

To ensure the longevity and performance of your filament, adhere to the following maintenance guidelines:

- **Proper Storage:** Always store unused filament in a cool, dry place, ideally in an airtight container with desiccant to prevent moisture absorption. Moisture can lead to printing issues such as bubbling and poor adhesion.
- **Handle with Care:** Avoid bending or kinking the filament excessively, as this can cause weak points or breakage during printing.
- **Keep Clean:** Ensure the filament path on your 3D printer is free from dust and debris to prevent clogs.

6. TROUBLESHOOTING

The FLASHFORGE Chameleon PLA filament is designed to minimize common printing issues. However, if you encounter problems, consider the following:

- **Clogging:** This filament is manufactured using clog-resistant methods. If clogging occurs, verify that your printing temperature is within the recommended range (190-220°C) and that your nozzle is clear.
- **Bubbles:** The filament is thoroughly dried and vacuum-sealed to prevent bubbles. If bubbles appear in your print, it may indicate moisture absorption. Re-dry the filament if possible, or ensure proper storage.
- **Warping or Poor Adhesion:** This filament is designed to prevent warping. Ensure your hotbed temperature is set correctly (25-60°C) and that your print surface is clean and properly leveled. Using an adhesive (e.g., glue stick) on the print bed can also improve adhesion.
- **Tangles or Line Breakage:** The filament features automatic winding to reduce tangles. If tangles occur, inspect the spool for any improper winding or external obstructions. Ensure the filament feeds smoothly into the printer.
- **Inconsistent Extrusion:** Verify that the printing speed is within the recommended range (40-200 mm/s) and that the extruder gear is clean and gripping the filament properly.

Impeccable Print Reliability

Produced with high-quality raw materials,
suitable for all major FFF 3D printers.



Smooth Extrusion



Less Clogging



Less Warping



Bubble-Free



Image 6.1: Visual representation of the filament's reliable print performance, highlighting smooth extrusion and absence of common print defects.

7. SPECIFICATIONS




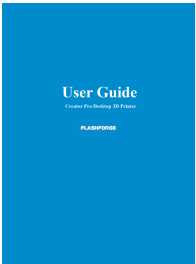
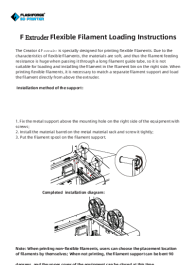

Specification	Detail
Brand	FLASHFORGE
Model Number	FF-Pro
Material	Polylactic Acid (PLA)
Color	Burnt Titanium
Filament Diameter	1.75 mm
Dimensional Accuracy	± 0.02 mm
Item Weight	1 Kilogram (2.2 pounds)
Package Dimensions	8.43 x 8.31 x 2.91 inches
Manufacturer	Zhejiang Flashforge 3D Technology Co., Ltd
Date First Available	February 21, 2023

8. WARRANTY AND SUPPORT

FLASHFORGE is committed to providing quality products and customer satisfaction.

- **Warranty:** All FLASHFORGE 3D printer filaments are provided with a two-month warranty from the date of purchase.
- **Money-back Guarantee:** A 30-day money-back guarantee is offered if you are not satisfied with the product.
- **Customer Service:** 24-hour online customer service is available to assist with any product-related questions or issues. Please feel free to contact us for support.

For further information or to explore other products, visit the official [FLASHFORGE Store](#).

	<p>Flashforge Adventurer 5M Series 3D Printers: Fast, User-Friendly, and High-Quality</p> <p>Explore the Flashforge Adventurer 5M and 5M Pro 3D printers. Discover features like one-click auto-leveling, high-speed printing up to 600mm/s, Core XY structure, quick-swap nozzles, and advanced air filtration systems for efficient and high-quality 3D printing.</p>
	<p>Flashforge Creator Pro Quick Start Guide</p> <p>This quick start guide provides essential information for setting up and operating the Flashforge Creator Pro 3D printer (Model SZ10-ZN/EN-A06). It covers unboxing, hardware assembly, filament installation, bed leveling, loading/unloading filament, and performing your first print.</p>
	<p>FlashForge AD5X User Guide</p> <p>User guide for the FlashForge AD5X 3D printer, covering setup, software, printing, maintenance, and troubleshooting. Learn how to operate your AD5X for optimal results.</p>
	<p>Flashforge Creator Pro Desktop 3D Printer User Guide</p> <p>A comprehensive guide for the Flashforge Creator Pro Desktop 3D Printer, covering setup, software installation, filament handling, printing processes, and support information.</p>
	<p>FlashForge Creator 4 F Extruder Flexible Filament Loading Instructions</p> <p>Instructions for loading flexible filament using the FlashForge F Extruder on the Creator 4 3D printer, detailing the installation of the filament support system for optimal printing.</p>
	<p>FlashForge Adventurer 3 User Guide: Setup, Operation, and Troubleshooting</p> <p>Comprehensive user guide for the FlashForge Adventurer 3 3D printer, covering setup, unpacking, first print, network and cloud connectivity, model printing, maintenance, troubleshooting, and support.</p>

