ELEGOO B0F2FHYSGQ

ELEGOO PLA Plus Filament & Filament Storage Bags Electric Pump Kit

User Manual

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1. Introduction

This manual provides comprehensive instructions for the ELEGOO PLA Plus Filament and the ELEGOO Filament Storage Bags Electric Pump Kit. It covers product components, setup procedures, operational guidelines, maintenance tips, and troubleshooting information to ensure optimal performance and longevity of your 3D printing materials and storage solutions. Please read this manual thoroughly before use.



Image 1.1: Overview of the ELEGOO PLA Plus Filament and the Filament Storage Bags Electric Pump Kit.

2. Product Overview

The ELEGOO PLA Plus Filament offers enhanced toughness and impact strength for your 3D printing projects. The accompanying Filament Storage Bags Electric Pump Kit is designed to protect your filament from moisture and dust, ensuring consistent print quality.

2.1. PLA Plus Filament Features

- **Enhanced Toughness & Impact Strength:** ELEGOO PLA Plus exhibits significantly improved toughness and impact strength compared to standard PLA, making it suitable for functional parts. It also features low warpage and shrinkage.
- **Neatly Wound Spool:** Each spool undergoes full mechanical winding and strict manual inspection to prevent tangles, snaps, and line breakage, ensuring smooth feeding.
- **High Dimensional Accuracy:** Manufactured with a precise 1.75mm diameter and an accuracy of +/- 0.02mm, guaranteeing consistent extrusion and reliable printing.
- **Vacuum Sealed Packaging:** Each filament spool is vacuum-sealed to prevent moisture absorption and dust

contamination prior to use.



Image 2.1: ELEGOO PLA Plus offers superior toughness and impact strength for durable prints.

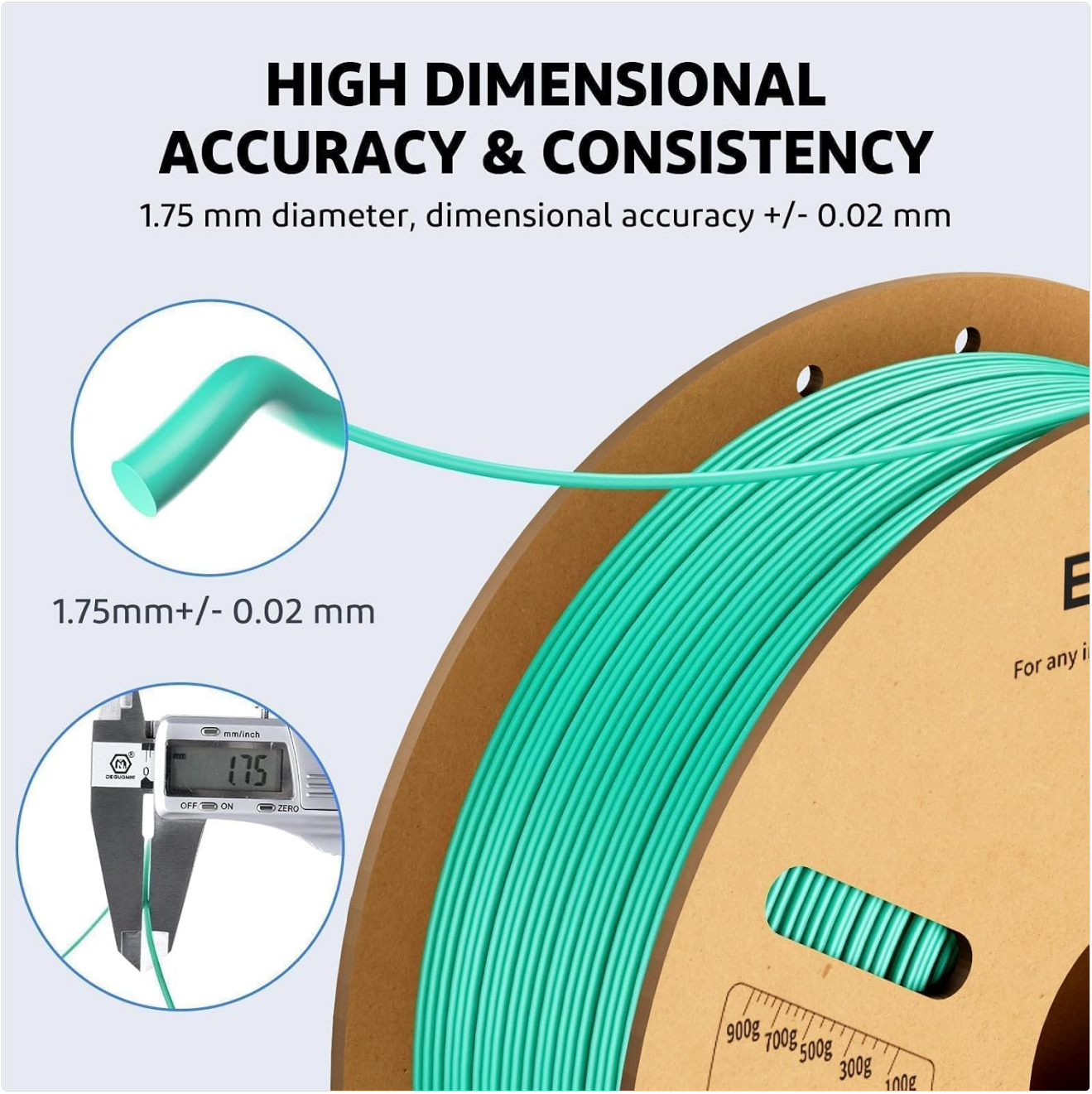


Image 2.2: The filament maintains high dimensional accuracy for consistent extrusion.



Image 2.3: Filament is neatly wound to prevent tangles and ensure smooth feeding.

2.2. Filament Storage Bags Electric Pump Kit Components

The kit includes:

- 15 x Regular Vacuum Bags (13.4" x 11.8")
- 15 x Large Vacuum Bags (13.8" x 12.6")
- 1 x Automatic Electric Pump
- 5 x Sealing Clips
- 1 x Charging Cable (for pump)



Image 2.4: All components included in the ELEGOO Filament Storage Bags Electric Pump Kit.

2.3. Storage Kit Features

- **Enhanced Sealing:** The vacuum bags are made from 0.21mm thickened material, improving sealability by 20% to minimize air leakage.
- **Moisture and Dust Protection:** Designed specifically for filament storage, these bags keep your 3D filament dry and free from dust.
- **Durable Construction:** Features a double zipper for strong sealing and are made from PA+PE material, ensuring durability and reusability. They are also BPA-free.
- **Efficient Vacuum Pump:** The automatic electric pump provides 60kPa suction for quick and easy one-button vacuum sealing.



Image 2.5: The thickened vacuum bags offer improved sealability for better protection.



Image 2.6: Key features of the premium quality and durable vacuum storage bags.

3. Setup

3.1. PLA Plus Filament Preparation

1. **Unpack:** Carefully remove the filament spool from its vacuum-sealed packaging. Retain the desiccant packet if present.
2. **Inspect:** Check the filament for any visible damage or tangles before loading.
3. **Load onto Printer:** Follow your 3D printer's specific instructions for loading new filament. Ensure the filament feeds smoothly into the extruder.



Image 3.1: The filament is delivered in a vacuum-sealed package to maintain dryness.

3.2. Filament Storage Bags Electric Pump Kit Preparation

1. **Charge the Pump:** Connect the provided charging cable to the electric pump and a suitable USB power source. Ensure the pump is fully charged before first use for optimal performance.
2. **Prepare Bags:** Ensure the vacuum bags are clean and dry before placing filament inside.

4. Operation

4.1. 3D Printing with PLA Plus Filament

Recommended starting print settings for ELEGOO PLA Plus (adjust as needed for your specific printer and environment):

- **Nozzle Temperature:** 200-220°C
- **Bed Temperature:** 50-65°C (optional, but recommended for better adhesion)
- **Print Speed:** 40-80 mm/s
- **Cooling Fan:** 100% (after the first few layers)

Note: These are general guidelines. Optimal settings may vary. Perform calibration prints to fine-tune for your specific 3D printer.

4.2. Using the Filament Storage Bags Electric Pump Kit

1. **Place Filament:** Insert the filament spool (with or without its original desiccant) into a vacuum bag.
2. **Seal the Bag:** Use the provided sealing clips to firmly close the double zipper of the bag. Ensure a complete seal to prevent air leakage.
3. **Vacuum Seal:** Place the electric pump directly over the air valve on the bag. Press the power button on the pump. The pump will automatically extract air until a vacuum is achieved (60kPa).
4. **Store:** Once sealed, store the vacuum-packed filament in a cool, dry place away from direct sunlight.



Image 4.1: The electric pump provides easy and efficient one-button vacuum sealing.

5. Maintenance

5.1. PLA Plus Filament Care

- **Dry Storage:** Always store unused or partially used filament in a dry environment. The vacuum storage bags are ideal for this purpose. Moisture absorption can lead to print quality issues.
- **Avoid Direct Sunlight:** Prolonged exposure to UV light can degrade filament properties.

5.2. Filament Storage Bags Electric Pump Kit Care

- **Clean Bags:** If bags become dirty, wipe them with a damp cloth and ensure they are completely dry before reuse. Avoid harsh chemicals.
- **Pump Care:** Keep the electric pump clean and dry. Recharge it periodically to maintain battery health, even if not in frequent use.
- **Inspect Seals:** Regularly check the zippers and air valves of the bags for any signs of wear or damage that could compromise the seal.

6. Troubleshooting

6.1. PLA Plus Filament Printing Issues

- **Clogging/Under-extrusion:**
  Possible Causes: Nozzle temperature too low, filament tangled, moisture in filament.
  Solutions: Increase nozzle temperature, check spool for tangles, dry filament (if suspected of moisture absorption).
- **Poor Bed Adhesion:**
  Possible Causes: Bed not level, bed temperature too low, dirty print surface.
  Solutions: Level print bed, increase bed temperature, clean print surface with isopropyl alcohol.
- **Warping:**
  Possible Causes: Insufficient bed adhesion, rapid cooling.
  Solutions: Increase bed temperature, use an enclosure, ensure proper bed adhesion.

6.2. Filament Storage Kit Issues

- **Bag Not Sealing:**
  Possible Causes: Zipper not fully closed, debris on zipper, damaged bag.
  Solutions: Ensure zipper is completely sealed using the clip, clean zipper area, replace damaged bag.
- **Pump Not Working:**
  Possible Causes: Low battery, pump clogged.
  Solutions: Recharge the pump, ensure the air valve on the bag is clear and the pump's suction port is unobstructed.
- **Air Leaking After Sealing:**
  Possible Causes: Imperfect zipper seal, damaged air valve, puncture in bag.
  Solutions: Re-seal the zipper carefully, check air valve for debris, inspect bag for small holes and replace if damaged.

7. Specifications

7.1. ELEGOO PLA Plus Filament

- **Material:** PLA Plus
- **Color:** Gray
- **Diameter:** 1.75mm
- **Dimensional Accuracy:** +/- 0.02mm
- **Weight:** 2KG (2 x 1KG spools)

- **Recommended Nozzle Temp:** 200-220°C
- **Recommended Bed Temp:** 50-65°C

7.2. ELEGOO Filament Storage Bags Electric Pump Kit

- **Vacuum Bag Material:** PA+PE (BPA-Free)
- **Bag Thickness:** 0.21mm
- **Regular Bag Size:** 13.4" x 11.8" (34cm x 30cm)
- **Large Bag Size:** 13.8" x 12.6" (35cm x 32cm)
- **Pump Suction Power:** 60kPa
- **Pump Charging:** USB

7.3. General Product Information

- **Brand:** ELEGOO
- **ASIN:** B0F2FHYSGQ
- **Date First Available:** March 25, 2025

8. Warranty and Support

For warranty information, technical support, or any inquiries regarding your ELEGOO PLA Plus Filament or Filament Storage Bags Electric Pump Kit, please refer to the official ELEGOO website or contact ELEGOO customer service directly. Contact details are typically available on the product packaging or the official brand website.
You can visit the **ELEGOO Store on Amazon** for more information and support resources.

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