

Comgrow PLA 1.75mm 0.9KG White

Comgrow PLA 3D Printer Filament 1.75mm White 0.9KG Instruction Manual

Model: PLA 1.75mm 0.9KG White

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1. INTRODUCTION

This manual provides essential information for the proper use and care of your Comgrow PLA 3D Printer Filament. This high-quality PLA filament is designed for durability and strength, offering consistent performance for various 3D printing projects. It features a 1.75mm diameter with a dimensional accuracy of +/- 0.02mm, ensuring reliable extrusion and print quality.

The filament is engineered for low shrinkage and enhanced layer adhesion, contributing to successful and functional prints. It is compatible with most 1.75mm FDM 3D printers.

2. SETUP

2.1 Unpacking the Filament

The Comgrow PLA filament comes vacuum-sealed with a desiccant to protect it from moisture. Upon receiving, inspect the packaging for any damage. Open the vacuum-sealed bag carefully.

Vacuumed Sealed Package

2LB PLA Spool

Sealed with Box

Vacuumed bag with desiccants



Image: Comgrow PLA filament is professionally packaged, including a vacuum-sealed bag with desiccant inside a sturdy box to maintain filament quality.

2.2 Loading the Filament

Before loading, ensure your 3D printer is powered off or in a safe state for filament changes. Refer to your specific 3D printer's manual for detailed filament loading instructions. Generally, the process involves:

1. Heating the hot end to the recommended PLA temperature (190-230°C).
2. Feeding the filament into the extruder mechanism.
3. Pushing the filament until it extrudes smoothly from the nozzle.

The filament features auto-mechanical winding to minimize tangles, making the loading process smoother.

3. OPERATING INSTRUCTIONS

Optimal printing results depend on correct printer settings. The following are general recommendations for Comgrow PLA

filament:

- **Nozzle Temperature:** 190-230°C
- **Bed Temperature:** 30-60°C
- **Printing Speed:** 30-70 mm/s



Image: Recommended printing parameters for Comgrow PLA filament, including nozzle and bed temperatures, and printing speed. Also shows how to secure the filament end to prevent tangling.

3.1 Dimensional Accuracy

Comgrow PLA filament maintains a consistent 1.75mm diameter with a dimensional tolerance of $\pm 0.02\text{mm}$. This precision ensures reliable material flow and contributes to high-quality print outcomes.

Dimensional Accuracy & Consistency

1.75mm diameter
dimensional accuracy $\pm 0.02\text{mm}$



Image: A digital caliper measuring the 1.75mm diameter of Comgrow PLA filament, highlighting its dimensional accuracy of $\pm 0.02\text{mm}$.

3.2 Compatibility

This PLA filament is designed to work effectively with all common 1.75mm FDM 3D printers. Its consistent quality and standard dimensions ensure broad compatibility.

Compatible With Most Printers

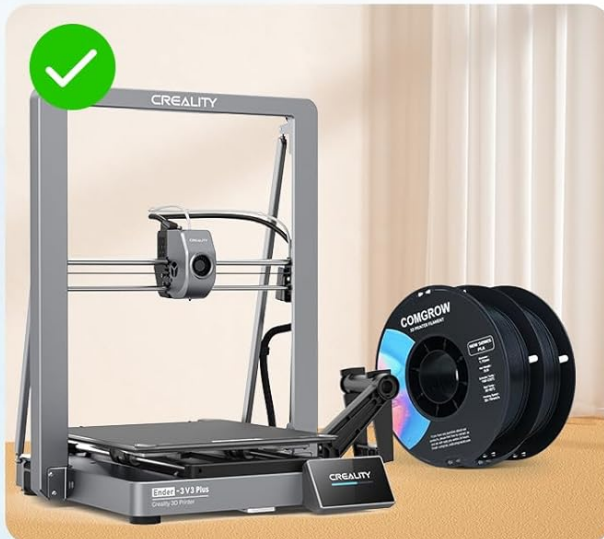
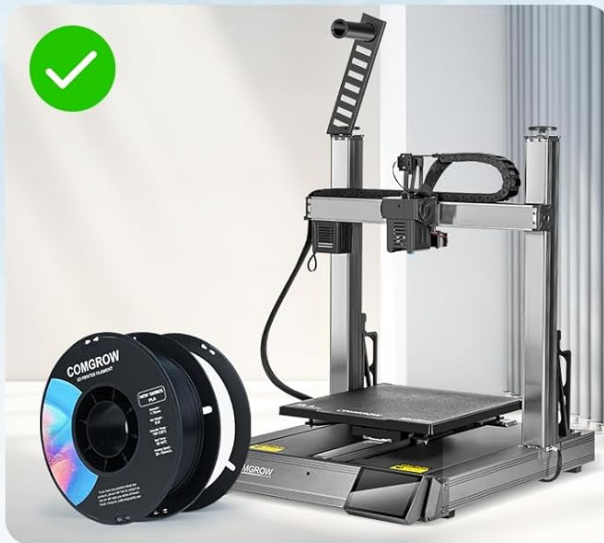


Image: Various 3D printer models shown with Comgrow filament, illustrating its compatibility with a wide range of 1.75mm FDM 3D printers.

4. MAINTENANCE AND STORAGE

4.1 Preventing Tangling

After completing a print or when storing the filament, always pass the free end of the filament into one of the fixing holes on the spool. This prevents the filament from unraveling and becoming tangled, which can lead to print failures.

4.2 Storage Conditions

To maintain optimal filament quality, store the spool in a cool, dry environment. High humidity can cause PLA to absorb moisture, leading to printing issues such as bubbling, stringing, and reduced print strength. It is recommended to store the filament in its original vacuum-sealed bag with the desiccant when not in use.

5. TROUBLESHOOTING COMMON ISSUES

While Comgrow PLA filament is designed for reliability, occasional printing issues may arise. Here are some common problems and potential solutions:

Issue	Possible Cause	Solution
Poor Layer Adhesion	Incorrect nozzle/bed temperature, printing too fast, wet filament.	Increase nozzle or bed temperature slightly (within recommended range). Reduce print speed. Ensure filament is dry.
Clogging	Nozzle temperature too low, dust/debris in filament, heat creep.	Increase nozzle temperature. Ensure filament path is clean. Clean or replace nozzle if necessary.
Stringing/Oozing	Nozzle temperature too high, retraction settings incorrect, wet filament.	Decrease nozzle temperature slightly. Adjust retraction distance and speed in slicer settings. Ensure filament is dry.
Warping	Bed temperature too low, no bed adhesion, drafts.	Increase bed temperature (within recommended range). Use an adhesive (e.g., glue stick) on the print bed. Enclose printer if possible to prevent drafts.
Bubbles/Popping Sounds during Extrusion	Filament has absorbed moisture.	Dry the filament using a filament dryer or a low-temperature oven. Store filament in a dry environment.

For more specific troubleshooting, consult your 3D printer's user manual or the manufacturer's support resources.

6. PRODUCT SPECIFICATIONS

- **Material:** Polylactic Acid (PLA)
- **Color:** White
- **Diameter:** 1.75 mm
- **Dimensional Accuracy:** +/- 0.02 mm
- **Net Weight:** 0.9 KG (2 LBS)
- **Recommended Nozzle Temperature:** 190-230°C
- **Recommended Bed Temperature:** 30-60°C
- **Recommended Printing Speed:** 30-70 mm/s
- **Manufacturer:** Creality 3D (Brand: Comgrow)
- **Package Dimensions:** 8.35 x 8.19 x 2.87 inches
- **Item Weight (including packaging):** 2.64 pounds

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty details for Comgrow PLA 3D Printer Filament are typically provided at the point of purchase or on the official Comgrow website. Please retain your proof of purchase for any warranty claims.

7.2 Customer Support

For technical assistance, questions, or concerns regarding your Comgrow PLA filament, please contact Comgrow customer support. Comgrow maintains a technical staff dedicated to providing professional support to all customers. Refer to the Comgrow official website or your purchase platform for the most current contact information.

