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› Comgrow PLA 3D Printer Filament Instruction Manual

Comgrow CA1F-AQ-PLA-BK 1KG

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Model: CA1F-AQ-PLA-BK 1KG

Brand: Comgrow

PRODUCT OVERVIEW

Comgrow PLA 3D Printer Filament is engineered for high-quality 3D printing, offering excellent consistency and reliability. This PLA filament is known for its stronger toughness, low shrinkage, and superior layer adhesion, making it suitable for a wide range of functional print projects. It is designed to be clog-free and bubble-free, ensuring a smooth printing experience.



Comgrow PLA 3D Printer Filament spool in black.

KEY FEATURES

- **High-quality PLA filament:** The recommended nozzle temperature is about 210-220°C. With quality and consistency in mind, stronger toughness with low shrinkage and better layer adhesion. Meet your needs for functional print projects. (Using tips: Please pass one end of the filament into the fixing hole to avoid being entangled after finishing your printing.)
- **Dimensional Accuracy & Consistency:** PLA filament. Self-adaptive control system in the manufacturing guarantee the 1.75 mm diameter, dimensional tolerance: $\pm 0.02\text{mm}$, 1 kg spool (2.2lbs) net weight.
- **Clog-Free & No Bubble:** PLA is vacuum sealed with desiccant to protect the filament from moisture to achieve high-precision printing.No clogging and bubble-free.
- **Less-tangle and Easy to Use:** Auto-mechanical winding to make sure the wire is neatly arranged.Recommended PLA filament extrusion/nozzle Temperature 210°C - 220°C
- **Wide Compatibility:** Works and Compatibleperfectly with all common 1.75mm FDM 3D printers.

SETUP AND HANDLING

Proper handling of your filament is crucial for successful prints and to maintain its quality. Always handle the filament with clean hands and avoid touching the filament directly to prevent contamination.

Video demonstrating the unboxing and initial handling of Comgrow PLA 3D Printer Filament, highlighting its vacuum packaging and proper storage.

Securing Filament End

After each use, ensure the filament end is securely fixed into the designated holes on the spool. This prevents the filament from unraveling and tangling, which can lead to printing issues.



Reliable Filament for Your Prints

-  Less Stringing
-  No Bubble
-  Smooth Printing
-  ISO 9001 2015 Quality Control
-  Consistent Color
-  Less Warping

Illustration showing how to secure the filament end into the spool's fixing hole to prevent tangling.

Dimensional Accuracy

Comgrow PLA filament maintains a consistent 1.75mm diameter with a tight tolerance of $\pm 0.02\text{mm}$. This precision ensures smooth feeding through your 3D printer's extruder and consistent print quality.

Easy-to-use Filament on Paper Spool

CLOG-FREE

Higher soft point than regular PLA to keep filament hard in hotend

BUBBLE-FREE

24-hour drying before vacuum packaging

TANGLE-FREE

Automatic winding with supplementary manual detection



Image demonstrating the precise 1.75mm diameter and +/- 0.02mm dimensional accuracy of the filament using a caliper.

OPERATING INSTRUCTIONS

For optimal results with Comgrow PLA filament, adhere to the following printing guidelines:

- **Recommended Nozzle Temperature:** 210°C - 220°C
- **Recommended Bed Temperature:** 45°C - 60°C
- **Printing Speed:** 40-70mm/s
- **Retraction for Bowden Extruder:** 4-8mm
- **Retraction for Direct Drive:** 0.5-1mm

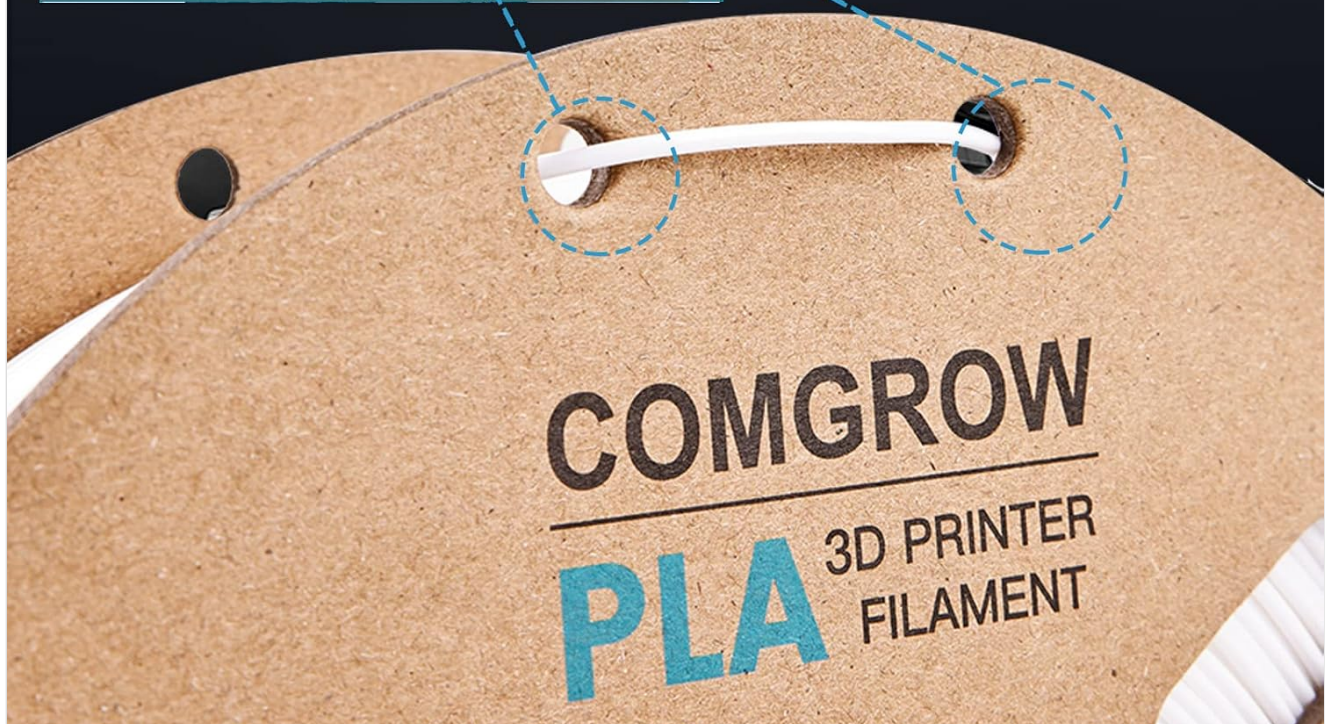
Video showcasing the printing process with Comgrow PLA filament, demonstrating smooth extrusion and print quality.

AUTOMATIC WINDED AND FIXED HOLE DESIGN



Using Tips

Please pass the end of the filament into the hole after finishing printing to avoid being entangled.



Visual representation of prints made with Comgrow PLA filament, emphasizing less stringing, no bubbles, smooth printing, consistent color, and less warping.

MAINTENANCE AND STORAGE

To ensure the longevity and performance of your Comgrow PLA filament, proper maintenance and storage are essential. PLA can absorb moisture from the air, which can lead to printing issues such as bubbling, stringing, and reduced print quality.

Preventing Moisture Absorption

The filament is vacuum-sealed with desiccant to protect it from moisture during shipping and initial storage. Once opened, it is recommended to store the filament in a dry, cool place, ideally in an airtight container with desiccant packets. This will help maintain its optimal printing properties.

Eco Packaging



RoHS



Recycled
Packaging



Recyclable Paper Box



Vacuum Packing



Recyclable Paper Spool

Diagram illustrating the clog-free, bubble-free, and tangle-free features of the filament, along with proper winding.

TROUBLESHOOTING

Encountering issues during 3D printing is common. Here are some common problems and potential solutions when using PLA filament:

Clogging

- **Cause:** Incorrect temperature settings, dust/debris on filament, or heat creep.
- **Solution:** Verify nozzle temperature is within the recommended range (210-220°C). Ensure filament is clean and stored properly. Check for proper cooling of the hotend.

Poor Adhesion

- **Cause:** Incorrect bed temperature, unlevel print bed, or dirty print surface.
- **Solution:** Set bed temperature to 45-60°C. Level the print bed accurately. Clean the print surface with isopropyl alcohol.

Stringing/Oozing

- **Cause:** Too high printing temperature or incorrect retraction settings.
- **Solution:** Reduce nozzle temperature in 5°C increments. Adjust retraction distance and speed (e.g., 4-8mm for Bowden, 0.5-1mm for Direct Drive).

TECHNICAL SPECIFICATIONS

Specification	Value
Material	Polylactic Acid
Color	1kg Black
Item Weight	1 Kilograms
Item Diameter	1.75 Millimeters
Dimensional Accuracy	+/- 0.02 mm
Package Dimensions	8.35 x 8.31 x 2.87 inches
Item Model Number	CA1F-AQ-PLA-BK 1KG
Manufacturer	Crealiti 3D
Date First Available	March 1, 2020

WARRANTY AND SUPPORT

Comgrow stands behind the quality of its products. For information regarding warranty coverage and return policies, please refer to the purchase platform or contact Comgrow customer support directly.

Return Policy: This product is eligible for a refund or replacement within 30 days of purchase, subject to the terms and conditions of the seller.

For further assistance or technical support, please visit the official Comgrow store or contact their customer service team.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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