

Creality Hyper PLA Filaments 1.75mm

Creality Hyper PLA Filament 1.75mm Instruction Manual

Model: Hyper PLA Filaments 1.75mm

1. SETUP

1.1 Unboxing and Initial Inspection

Upon receiving your Creality Hyper PLA Filament, carefully open the packaging. Inspect the spool for any visible damage. The filament spool is made from recycled material and comes vacuum-sealed in a nylon bag with desiccants to ensure optimal dryness.



Figure 1: Creality Hyper PLA Filament 1KG Spool Packaging. The image shows a 1KG spool of Hyper PLA filament, vacuum-sealed in a nylon bag with desiccants, and then placed inside a sealed cardboard box.

1.2 Loading Filament

Load the filament onto your 3D printer according to your printer's specific instructions. Ensure the filament feeds smoothly from the spool into the extruder.

1.3 Initial Printer Settings

For optimal results with Creality Hyper PLA Filament, use the following recommended settings:

- **Printing Temperature:** 190-230°C

- **Bed Temperature:** 25-60°C
- **Printing Speed:** 30-600mm/s
- **Fan:** ON

2. OPERATING INSTRUCTIONS

2.1 High-Speed Printing

Creality Hyper PLA Filament is engineered for high-speed printing, supporting speeds up to 600mm/s. Its high fluidity ensures sufficient melting and extrusion, while rapid cooling allows for quick shaping, enabling faster print times compared to traditional PLA.



Figure 2: Comparison of print speed between Hyper PLA and other PLA. Hyper PLA can achieve significantly faster print times due to its high fluidity and rapid cooling formula.

2.2 Dimensional Accuracy

The filament boasts a uniform wire diameter of 1.75 ± 0.02 mm, measured by a two-way laser. This precision ensures stable extrusion and smooth material flow, contributing to consistent print quality.

Comparison of Printing Time

Creality Hyper PLA

🕒 1h30min

Other PLA

🕒 4h20min

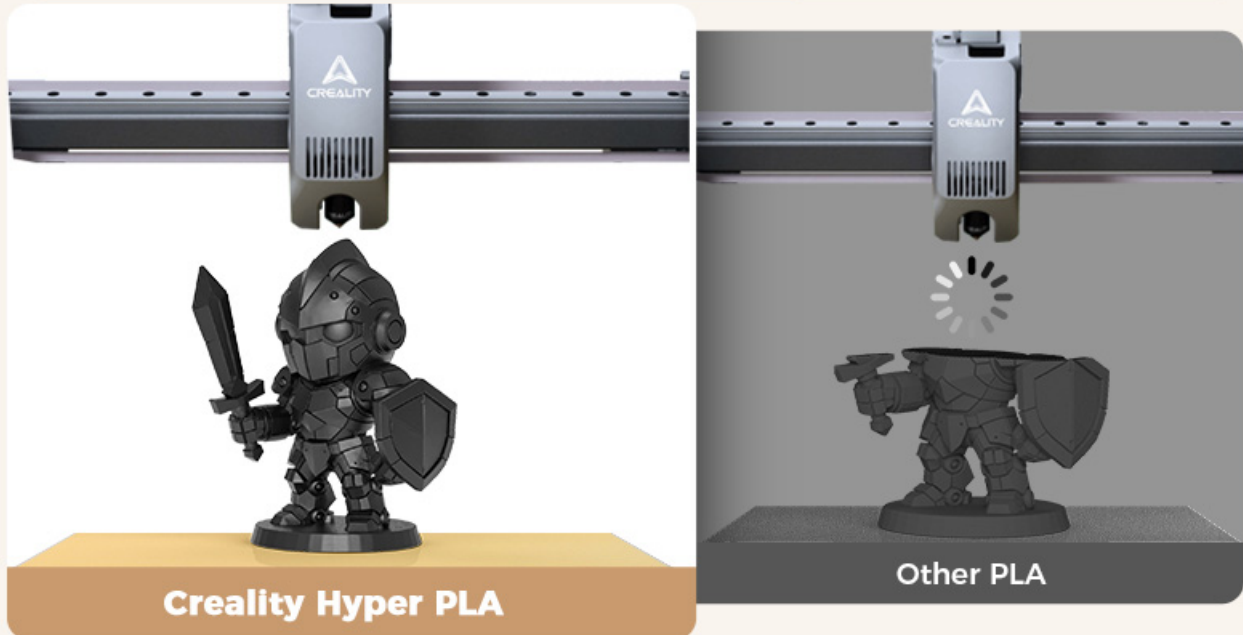


Figure 3: Uniform Wire Diameter. A close-up of the filament shows its precise 1.75mm diameter, measured with a digital caliper.

2.3 Enhanced Toughness and Strength

Hyper PLA offers higher tensile strength than ABS and superior toughness compared to traditional PLA, PLA+, or PLA Pro filaments. This results in printed models with better structural bearing capacity, suitable for functional parts and high-accuracy assembly components.

To prevent tangling, please insert the filament into the side holes of the spool after use.



🌡️ Temperature
190°C-230°C

🔥 Build Plate Temperature
25°C - 65°C

🚀 Print Speed
30 - 600mm/s

🌀 Fan Speed
100%

Figure 4: Functional Applications. Examples of prints made with Hyper PLA, including machine parts, mass production items, prototypes, and toys, highlighting its durability.

2.4 Universal Compatibility

This filament is universally compatible with most common 1.75mm FDM 3D printers on the market, including Creality 3D

Printers, Ender 3D Printers, Anycubic, Elegoo, Bambu, Ankermake, Prusa, Flashforge, Monoprice, FLSUN, Artillery, and Qidi 3D Printers.



Figure 5: Wide Printer Compatibility. The image displays various FDM 3D printer models, indicating broad compatibility with Creality Hyper PLA filament.

2.5 Official Product Video

Video 1: Official Creality Hyper PLA Filament. This video provides an overview of the Creality Hyper PLA filament, showcasing its features and benefits.

3. MAINTENANCE

3.1 Filament Storage

To prevent tangling and maintain filament quality, always insert the end of the filament into one of the side holes of the spool after each use. Store the filament in a cool, dry place, ideally in its original vacuum-sealed bag or a dry box, to prevent moisture absorption.



Figure 6: Filament Storage Tip. The image illustrates how to properly secure the filament end into the spool's side hole to prevent tangling.

3.2 Eco-friendly Packaging

The filament spool and packaging box are made from recycled paper and non-toxic bio-materials extracted from corn, reflecting an commitment to environmental responsibility.



Figure 7: Eco-friendly Packaging. The image highlights the use of recycled paper and corn-based materials for the spool and box.

4. TROUBLESHOOTING

4.1 Common Printing Issues

Creality Hyper PLA is designed to minimize common 3D printing issues. If you encounter problems such as stringing, warping, or bubbles, consider the following:

- **Stringing:** Ensure your retraction settings are optimized for your printer and filament.
- **Warping:** Verify your bed temperature is within the recommended range (25-60°C) and that your print surface is properly prepared for adhesion.
- **Bubbles:** This often indicates moisture in the filament. Ensure proper storage as described in the Maintenance section.



Figure 8: Quality Prints. The image displays various 3D printed objects, demonstrating the filament's ability to produce prints with minimal stringing, warping, and no bubbles.

5. SPECIFICATIONS

Feature	Specification
Brand	Creality
Model Number	HYZ-HyperPLA-GR-US
Material Type	Polylactic Acid
Filament Diameter	1.75mm (Accuracy $\pm 0.02\text{mm}$)

Feature	Specification
Net Weight	1kg (2.2lbs)
Printing Speed	30-600mm/s
Printing Temperature	190-230°C
Bed Temperature	25-60°C
Item Weight	2.2 pounds
Product Dimensions	7.9 x 7.9 x 2.7 inches

6. WARRANTY AND SUPPORT

Creality provides responsible after-sales service and lifetime technical support for the Hyper PLA Filament. Should you encounter any problems or have questions regarding the product, please do not hesitate to contact Creality through the Amazon Message Center. Our support team will respond within 24 hours to assist you.

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