ANYCUBIC NFEP Film 10.1-inch

ANYCUBIC 10.1-inch NFEP Film Instruction Manual

For Photon Mono M5, M5s, M5s Pro, M7, M7 PRO 3D Printers

1. INTRODUCTION

This manual provides essential instructions for the proper installation, use, and maintenance of your ANYCUBIC 10.1-inch NFEP Film. This film is a critical component for resin 3D printing, designed to facilitate the release of printed layers from the resin vat, ensuring successful print outcomes. Please read this manual thoroughly before installation and use.

2. PRODUCT OVERVIEW

The ANYCUBIC 10.1-inch NFEP Film is engineered for compatibility with various ANYCUBIC Photon Mono series 3D printers, including the Photon Mono M5, M5s, M5s Pro, M7, and M7 PRO. It is also suitable for other resin 3D printers requiring a 10.1-inch release film, and can be cut to size if needed.

- **High-Quality Material:** Constructed from durable materials resistant to high temperatures (up to 204 °C).
- **Chemical Resistance:** Designed to withstand various resin types and cleaning agents.
- **Non-Stick Surface:** Provides an ultimate non-stick surface for optimal print release.
- **UV Stable:** Maintains integrity under UV light exposure during printing.

Each package contains 2 pieces of NFEP film. Please note that the NFEP film is a consumable part and requires replacement if it becomes deformed or damaged during printing.

Image: The ANYCUBIC 10.1-inch NFEP Film, showing its packaging and a single film sheet.

3. SETUP AND INSTALLATION

Proper installation of the NFEP film is crucial for print quality and film longevity. Follow these general steps for replacing the film in your resin vat. Specific steps may vary slightly depending on your printer model; refer to your printer's manual for detailed vat disassembly instructions.

1. **Safety First:** Always wear appropriate personal protective equipment, including gloves and eye protection, when handling resin and printer components. Ensure the printer is turned off and unplugged.

2. **Remove Resin Vat:** Carefully remove the resin vat from your 3D printer.

3. **Empty and Clean Vat:** Pour any remaining resin into a separate container for proper disposal or storage. Clean the resin vat thoroughly with isopropyl alcohol (IPA) and a soft cloth. Ensure no cured resin particles or debris remain.

4. **Disassemble Vat Frame:** Unscrew and remove the frame that holds the old NFEP film in place. This typically involves several small screws around the perimeter of the vat.

5. **Remove Old Film:** Carefully detach and dispose of the old, damaged, or worn-out NFEP film.

6. **Prepare New Film:** Gently unroll the new ANYCUBIC 10.1-inch NFEP Film. Avoid touching the central printing area with bare hands to prevent fingerprints or oils.

7. **Install New Film:** Place the new film over the vat opening, ensuring it is centered and flat. Reassemble the frame over the new film, aligning all screw holes.

8. **Secure Film:** Begin tightening the screws in a cross-pattern to ensure even tension. Do not overtighten, as this can damage the film or the vat frame. The film should be taut but not excessively stretched. A slight drum-like sound when gently tapping the film indicates appropriate tension.

9. **Inspect:** Visually inspect the installed film for any wrinkles, creases, or damage. Ensure it is clean and clear.

10. **Recalibrate Printer:** After replacing the film, it is recommended to recalibrate your 3D printer's Z-axis home position (leveling) to account for any minor changes in film thickness or vat seating. Refer to your printer's specific instructions for Z-axis calibration.
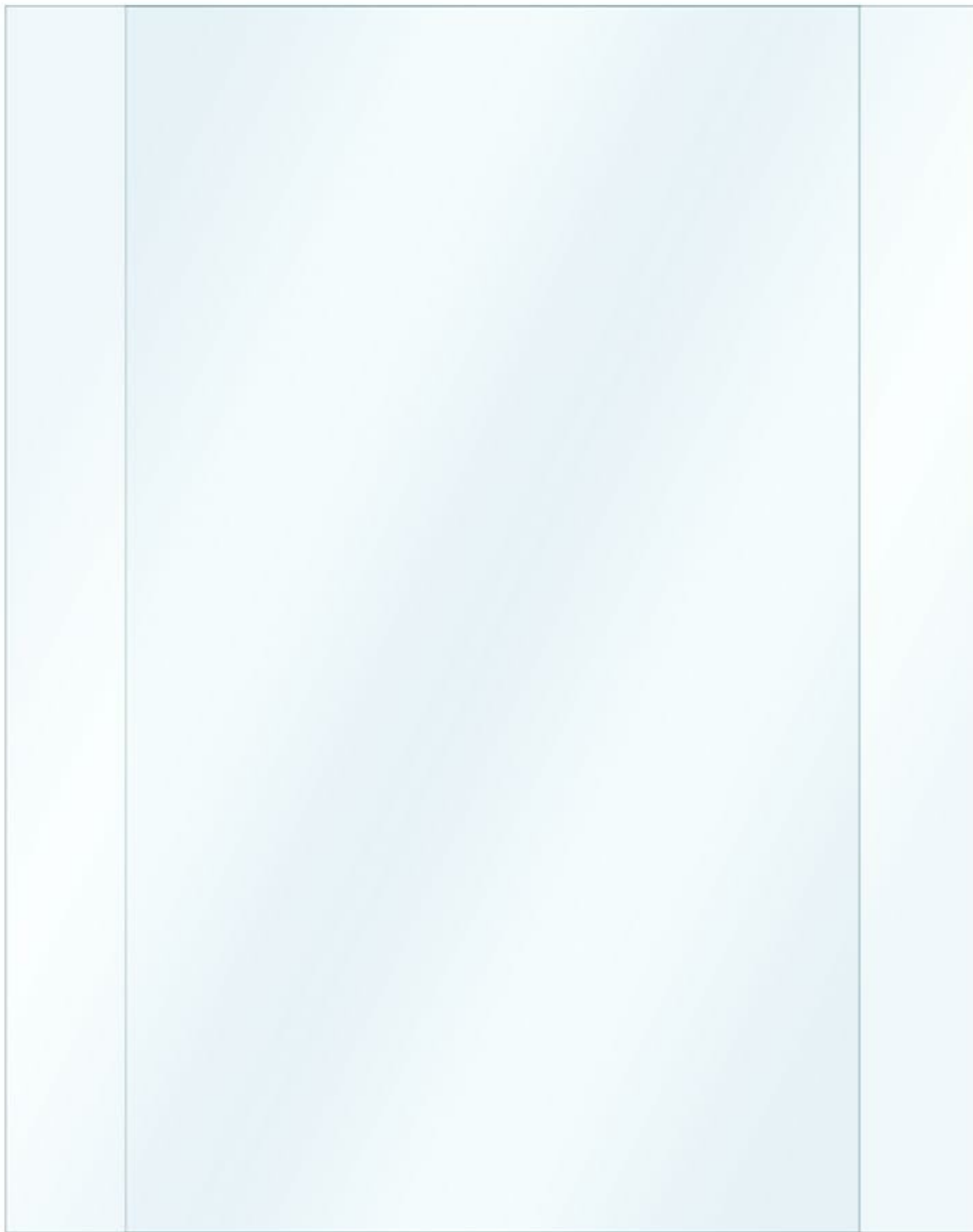

Image: A clear view of a single sheet of ANYCUBIC 10.1-inch NFEP Film, ready for installation.

4. OPERATING GUIDELINES

Once the NFEP film is installed, follow these guidelines for optimal printing performance:

- **Resin Compatibility:** This NFEP film is compatible with standard UV-curing resins used in LCD/DLP resin 3D printers.
- **Temperature Control:** Maintain a stable room temperature (typically 20-30°C or 68-86°F) for optimal resin performance and print success.
- **Avoid Sharp Objects:** Never use sharp tools or objects to scrape the film, as this can cause permanent damage and lead to print failures.
- **Regular Inspection:** Before each print, visually inspect the film for any signs of damage, cured resin, or debris.

5. MAINTENANCE

Proper maintenance extends the life of your NFEP film and ensures consistent print quality.

- **Cleaning:** After printing, if there is any resin residue on the film, gently clean it with a soft, lint-free cloth and a small amount of isopropyl alcohol (IPA). Avoid excessive rubbing or harsh chemicals.
- **Resin Removal:** If cured resin adheres to the film, gently push from the underside of the film to release it. Do not use sharp objects.
- **Storage:** When not in use, store the resin vat with the film in a dark, dust-free environment to prevent UV exposure and contamination.
- **Replacement:** The NFEP film is a consumable part. Replace it immediately if you observe any of the following:
    - Visible deformation, wrinkles, or creases.
    - Punctures, tears, or deep scratches.
    - Persistent print adhesion issues despite proper calibration and settings.
    - Significant clouding or haziness that affects light transmission.

6. TROUBLESHOOTING

If you encounter issues during printing, consider the following troubleshooting steps related to the NFEP film:

Problem	Possible Cause	Solution
Prints sticking to NFEP film / Print failures	Insufficient Z-axis calibration. Film too loose or too tight. Damaged or dirty film. Incorrect exposure settings.	Recalibrate Z-axis home position. Check film tension; reinstall if necessary. Clean film or replace if damaged. Adjust resin exposure settings in your slicer software.
Film appears cloudy or hazy	Resin residue buildup. Degradation from prolonged use.	Clean thoroughly with IPA. Replace the film if cloudiness persists and affects print quality.
Film is punctured or torn	Accidental damage from tools. Sharp debris in resin vat. Excessive force during print removal.	Immediately replace the film to prevent resin leaks. Inspect resin for debris before pouring into vat.

7. Specifications

- **Product Name:** ANYCUBIC 10.1-inch NFEP Film
- **Compatibility:** Anycubic Photon Mono M5, M5s, M5s Pro, M7, M7 PRO, and other compatible 10.1-inch resin 3D printers.
- **Material:** NFEP (N-Fluorinated Ethylene Propylene)
- **Temperature Resistance:** Up to 204 °C (400 °F)
- **Chemical Resistance:** High
- **Surface Properties:** Ultimate non-stick, UV stable
- **Quantity:** 2 pieces per package
- **Dimensions:** Designed for 10.1-inch LCD screens (can be cut to fit different sized resin vats).
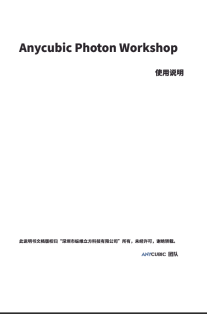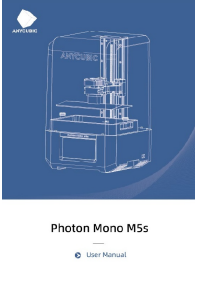
8. Warranty and Support

The ANYCUBIC 10.1-inch NFEP Film is a consumable component. For any issues or questions regarding the product, please contact ANYCUBIC customer support. We aim to provide a response within 12 hours.
For further assistance, please visit the official ANYCUBIC website or refer to your 3D printer's specific user manual for detailed instructions on FEP/NFEP film replacement and printer operation.

Related Documents - NFEP Film 10.1-inch

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Photon Mono M5s User Manual	[Anycubic Photon Mono M5s User Manual: Setup, Operation, and Maintenance Guide](#) Comprehensive guide for the Anycubic Photon Mono M5s LCD 3D printer. Learn about setup, safety, technical specifications, recommended print parameters, file preparation (USB & Cloud), printing tests, maintenance, and troubleshooting.
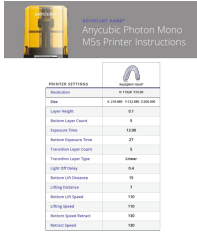
[Anycubic Photon Mono M5s Printer Instructions for KeySplint Hard Resin](#)

Detailed instructions and printer settings for using the Anycubic Photon Mono M5s 3D printer with KeySplint Hard resin, including resolution, layer height, exposure times, and speed parameters.
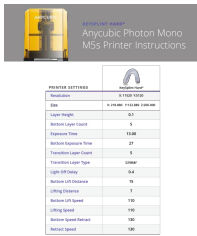

Photon Mono M5s Pro

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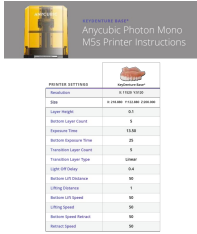
[Anycubic Photon Mono M5s Printer Instructions for KeyDenture Base](#)

Detailed instructions and printer settings for using the Anycubic Photon Mono M5s 3D printer with KeyDenture Base resin.

[Anycubic Photon Mono M5s Printer Instructions for KeySplint Hard Resin](#)

Detailed printer settings for using KeySplint Hard resin with the Anycubic Photon Mono M5s 3D printer, covering resolution, layer height, exposure times, and lift speeds.