

ANYCUBIC ABS-Like Resin 3.0

ANYCUBIC Water-Washable ABS-Like Resin 3.0 User Manual

For 405nm LCD/DLP 3D Printers

1. INTRODUCTION

Thank you for choosing ANYCUBIC Water-Washable ABS-Like Resin 3.0. This resin is engineered for high-performance 3D printing, offering a balance of strength, precision, and user-friendly post-processing. Its water-washable formula simplifies cleanup, while its low odor ensures a more comfortable printing environment. This manual provides essential information for safe handling, optimal usage, and maintenance of the resin.

2. SAFETY PRECAUTIONS

Always prioritize safety when handling resin. Failure to follow these guidelines may result in injury or damage.

- **Wear Protective Gear:** Always wear gloves, a mask, and safety glasses when handling liquid resin to prevent skin contact, inhalation of fumes, and eye exposure.
- **Ventilation:** Use the resin in a well-ventilated area to minimize exposure to odors and fumes.
- **Skin Contact:** In case of skin contact, wash immediately and thoroughly with soap and water.
- **Eye Contact:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and seek medical attention.
- **Ingestion:** Do not ingest. If swallowed, do not induce vomiting. Rinse mouth and seek immediate medical attention.
- **Storage:** Store resin in a cool, dry, dark place, away from direct sunlight and out of reach of children and pets. Keep the bottle tightly sealed.
- **Disposal:** Dispose of cured resin as regular plastic waste. Liquid resin should not be poured down drains or disposed of in regular trash. Consult local regulations for proper disposal of uncured resin.

3. PRODUCT FEATURES

- **Water-Washable & Cost-Effective:** This resin utilizes special hydrophilic additives, allowing uncured

resin residue to be easily removed with just water, eliminating the need for alcohol. This significantly reduces post-processing time and resin costs, providing a smoother and more economical printing experience.

- **Balanced High Durability and Toughness:** ANYCUBIC Water-Washable ABS-Like Resin 3.0 achieves a Shore Hardness of 86D and an elongation at break of 40%, demonstrating excellent impact resistance and toughness. It performs well in various applications such as those requiring drilling or tapping, load-bearing parts, and precise miniature models. Support material removal is also easy.
- **High Precision and Low Shrinkage Rate:** The resin has a post-curing shrinkage rate of only 4%, achieving excellent dimensional accuracy. It beautifully reproduces complex details and is ideal for engineering prototypes, functional assembly parts, and precise models where strict tolerances are required.
- **Low Odor and Environmentally Conscious Formula:** Designed with user comfort and environmental consideration in mind, this resin significantly reduces odor during printing. Its eco-friendly water-washable properties simplify post-processing and contribute to the reduction of chemical waste.
- **Wide Compatibility and Versatile Applications:** Compatible with all 405nm wavelength LCD/DLP 3D printers, it performs particularly well with the Anycubic Photon series. It supports various creative activities, from hobby users to professionals, including functional prototypes, custom parts, and miniature production.

4. SETUP

1. **Prepare Your Workspace:** Ensure your printing area is clean, well-ventilated, and free from direct sunlight. Lay down protective coverings if necessary.
2. **Gather Safety Gear:** Put on gloves, a mask, and safety glasses before handling the resin.
3. **Shake the Resin Bottle:** Before each use, shake the resin bottle thoroughly for at least 30 seconds to ensure all components are well mixed.
4. **Pour Resin into Vat:** Carefully pour the desired amount of resin into your 3D printer's resin vat. Do not overfill.
5. **Printer Settings:** Refer to your 3D printer's manual for recommended exposure settings for 405nm standard resin. Initial layer exposure time and normal layer exposure time may need fine-tuning based on your specific printer model and desired print quality.

5. OPERATING INSTRUCTIONS

Once your printer is set up and resin is loaded, you can begin the printing process:

1. **Load Model:** Load your sliced 3D model file onto your printer.
2. **Start Printing:** Initiate the print job according to your printer's interface.
3. **Monitor Print:** Observe the initial layers to ensure proper adhesion and formation.
4. **Post-Processing Preparation:** Prepare a container with clean water for washing your prints immediately after printing.

Your browser does not support the video tag.

Video: ANYCUBIC ABS-LIKE Resin 3.0, highlighting its high strength, crack resistance, fast curing, and low odor properties. This video demonstrates the resin's performance and ease of use.

Your browser does not support the video tag.

Video: ANYCUBIC ABS-Like Resin Pro 2, showcasing its enhanced strength and toughness. This video illustrates the

6. POST-PROCESSING

Proper post-processing is crucial for achieving the best results and durability from your prints.

1. **Remove Print:** Carefully remove the printed model from the build plate using a scraper.
2. **Water Wash:** Immerse the model in clean water and gently agitate it to remove any uncured resin. You can use a soft brush for intricate areas. Repeat with fresh water if necessary until all residue is gone.
3. **Dry the Model:** Allow the model to air dry completely or use a soft cloth/air blower. Ensure no water remains on the surface.
4. **Curing:** Place the dried model in a UV curing chamber or expose it to direct sunlight until fully cured. Curing times vary depending on the UV light intensity and model thickness. Over-curing can make the model brittle.
5. **Support Removal:** Once cured, carefully remove any support structures. The toughness of ABS-Like Resin 3.0 makes support removal easier while maintaining model integrity.

水洗可能 コストパフォーマンス

親水性剤配合により、残留液体樹脂を水洗浄可能に。後処理時間とコストを大幅削減。この水洗式フォーミュラにより、硬化後の収縮率が極めて低く、割れにくい造形物を実現。



便利



安全性向上



コスト削減

*地下水汚染防止のため、廃水を直接下水道に流さないでください。

モデル提供: @lootstudios



Image: ANYCUBIC Water-Washable ABS-Like Resin 3.0 bottle next to a detailed 3D printed model, illustrating the water-washable feature. The image emphasizes the ease of cleaning without alcohol.

バランスのとれた強さと靱性

ドリル加工・タップ加工が必要な造形物、サポート除去が容易な部品、耐荷重パーツ、ミニチュアフィギュアなどに最適です。

86D

ショア硬度

40%

破断伸度



繊細な部品でもサポート除去が容易



モデル提供: @BlueShadowv

高靱性：曲げ・破損に強い優れた耐荷重性能



モデル提供: @lootstudios

2倍の衝撃耐性：割れにくさを強化

Image: A 3D printed part made from ANYCUBIC ABS-Like Resin 3.0 being bent by hands, showcasing the resin's excellent flexibility and toughness, which prevents breakage.

7. MAINTENANCE

- **Resin Storage:** Keep the resin bottle tightly sealed when not in use. Store it in a cool, dry, and dark place to prevent premature curing.
- **Resin Vat Cleaning:** After printing, if you don't plan to print again soon, filter any remaining resin back into the bottle using a mesh filter to remove cured particles. Clean the resin vat with water and a soft cloth.
- **Temperature:** Optimal printing temperature is typically between 20°C and 30°C (68°F to 86°F). Ensure your printing environment is within this range for best results.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Print fails to adhere to build plate	Insufficient initial layer exposure, dirty build plate, incorrect leveling	Increase initial layer exposure time, clean and re-level build plate, ensure proper adhesion.
Parts are brittle or crack easily	Over-curing, insufficient post-curing, incorrect exposure settings	Reduce post-curing time, adjust normal layer exposure, ensure resin is not expired.
Print has poor detail or rough surface	Under-exposure, dirty FEP film, old resin	Increase normal layer exposure time, clean or replace FEP film, use fresh resin.
Resin is too viscous or prints slowly	Low ambient temperature	Ensure printing environment is within recommended temperature range (20-30°C).

9. SPECIFICATIONS

- **Brand:** ANYCUBIC
- **Model:** Water-Washable ABS-Like Resin 3.0
- **Color:** Black (1KG)
- **Wavelength:** 405nm UV
- **Shore Hardness:** 86D
- **Elongation at Break:** 40%
- **Shrinkage Rate:** 4%
- **Compatibility:** All 405nm LCD/DLP 3D Printers
- **Item Weight:** 1.05 Kilograms (including packaging)

破断伸度



引張強度



衝撃強度



Image: A bar chart illustrating the superior mechanical properties of Water-Washable ABS-Like Resin 3.0, including its high elongation at break, tensile strength, and impact strength compared to previous versions and standard resins.

高精度 & 低収縮率

精細なディテール再現で、プリントが生き生きと仕上がります



Image: A close-up of a finely detailed 3D printed miniature, demonstrating the resin's ability to capture intricate details with minimal shrinkage, resulting in high-precision models.

低粘度で硬化速度アップ

低粘度かつ高流動性により、レジンが素早く造形領域に戻るため、総プリント時間を短縮できます。



Image: A visual comparison showing ANYCUBIC ABS-Like Resin 3.0 being poured into a printer vat, highlighting its low viscosity and high flowability, which contributes to faster printing and fewer errors.

低臭 & 環境に優しい

より快適で清潔なプリント環境を実現



Image: Two bottles of ANYCUBIC Water-Washable ABS-Like Resin 3.0 (White and Black) displayed in a serene, natural environment, underscoring the resin's low odor and environmentally conscious formulation for a pleasant printing experience.

多彩なアプリケーション

405nm UV光硬化技術を使用する全てのLCD/DLPプリンターと互換性があり、Anycubic LCDプリンターで最適な性能を発揮します

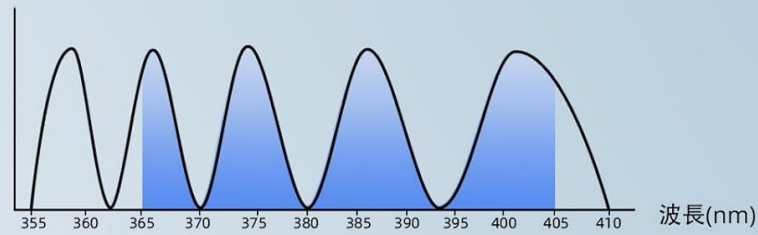


Image: A lineup of various ANYCUBIC LCD/DLP 3D printers, demonstrating the broad compatibility of the ABS-Like Resin 3.0 with a wide range of 405nm UV curing printers, especially the Anycubic Photon series.

鮮やかなカラーバリエーション

多彩なカラー選択可能：
全てのプリントに楽しさと創造性を追加



Image: A vibrant display of 3D printed models in different colors, highlighting the rich color palette available with ANYCUBIC ABS-Like Resin 3.0, allowing for diverse and creative projects.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your ANYCUBIC Water-Washable ABS-Like Resin 3.0, please visit the official ANYCUBIC website or contact their customer service directly. Keep your purchase receipt for warranty claims.

- **Official Website:** www.anycubic.com
- **Customer Service:** Refer to the contact section on the official website for support options.