Anycubic Plant-Based Resin 2.0: low-odor, eco-friendly, consumer-grade resin

1. Product Name: Plant-Based Resin 2.0

ANYCUBIC Plant-Based Resin 2.0 is an eco-friendly, low-odor 3D printing resin designed for rapid curing, high precision, and exceptional strength-toughness balance. Compatible with all 405nm wavelength 3D printers, it is ideal for low odor anime/game figurines, architectural models, aesthetic prototypes, and structural R&D prototypes.

2.Physical Property

Specification	Testing standard	Parameter
Viscosity	ASTM D2196	300-350 mPa·s (25°C)
Density	ASTM D792	1.09-1.1 g/cm³
Hardness	ASTM D2240	Shore D 81-83
Tensile Strength	ASTM D638	35-40 MPa
Elongation at Break	ASTM D638	18-20%
Bending Modulus	ASTM D790	42-48 /MPa
Bending Strength	ASTM D790	1400-1600/MPa
Izod Impact Strength	GB/T1843/U	104 J/m
Volume Shrinkage	GB/T15223-2008	3.8-4.5%

Rate		

3. Chemical Property

Main Components:

Acrylate oligomers, soybean oil, reactive monomers, photoinitiators, additives, etc.

Chemical Resistance After Curing:

Resistant to weak acids/bases and certain solvents (e.g., alcohol); not resistant to strong solvents (e.g., acetone).

4.Printing Parameters

Recommended Layer Height: 0.1mm, 0.05mm (adjust according to the specific 3D printer)

First Layer Exposure Duration /s: 25-40s

Exposure Duration /s: 2-2.5s (relates to light source power and resin types)

Printing Temperature /℃: 20℃-50℃

Recommended Wavelength: 405nm (LCD/DLP)

5.Post Processing

Washing Method: Wash with Ethanol & Isopropyl Alcohol(IPA)

Wash Duration: ≥3 min (in wash & cure)

UV Curing Method: 3 minutes (in wash & cure)

Resin Disposal: Treated as plastic waste after curing

6.Storage Condition

Temperature: 20-50℃ (avoid extreme high/low temperatures)

Light Protection: Store in its factory container

Shelf Life: 18 months

7.Supplier Information

Manufacturer/Brand: ANYCUBIC

Technical Support: https://www.anycubic.com/

User Instructions

* Before use: Shake the resin thoroughly, clean the resin vat and build plate, ensure the vat's bottom remains highly transparent, and inspect the release film for any signs of damage.

* During use: Open the cap, remove the sealing film, pour the resin into the vat and ensure it does not exceed the max fill line.

* After use: Use proper tools for post-processing, including scrapers, flush cutters, tweezers, gloves, and IPA (≥95% concentration)

* Post-processing:

A: Remove the prints from the build plate using a scraper.

B: Wash prints, remove the support, and cure the prints.

C: Polish, paint, etc.

Attention

1. Store in room temperatures and avoid direct sunlight.

2. We recommend a printing temperature above 20°C. Lower temperatures may negatively impact print success rates. Be cautious, as excessive temperature can lead to increased resin color settlement.

3. If sediment settles at the bottom of the resin vat, gently stir it with a plastic spatula or pour the resin back into its bottle and shake thoroughly to remix.

4. Uncured resin is highly light-sensitive and will cure in direct sunlight. For best results, print in a dark, well-ventilated area or keep the cover closed during printing.

5. Do not leave the uncured prints in the cleaning agent for a prolonged period, which may compromise the resin's performance.

PS: The material performance may vary depending on the printer, method of curing, and testing instruments. Please refer to this product's safety information and certification reports (e.g., MSDS, REACH, RoHS, EAN, TDS). Should you encounter any issues, do not hesitate to contact us.