

MINI | DURABLE PRECISION FOR MINIATURES

1. Product Overview

Mini™ Resin is a high-detail, impact-resistant 3D printing resin formulated for miniatures, scale models, and collectables.

It delivers exceptional precision and fine surface definition, ideal for tabletop gaming, dioramas, and model design.

Combining toughness with smooth finish, Mini Resin allows for durable prints that withstand drops and handling.

Optimised for MSLA 3D printers, it ensures reliable curing and consistent quality across detailed, small-scale projects.

Compatible with the CustomMix™ system for colour and finish customisation.

2. Key Features & Benefits

- ✓ Ultra-high detail resolution for miniature printing
- ✓ Excellent toughness and drop resistance
- ✓ Smooth surface finish with low brittleness
- ✓ Reliable, consistent performance on MSLA printers
- ✓ Fully compatible with CustomMix™ additives
- ✓ Easy to clean with ResinAway®

3. Applications

- ★ Miniatures and tabletop gaming figures
- ★ Scale models and diorama terrain
- ★ Custom collectables and display pieces
- ★ Prototype parts requiring fine detail and strength

4. Physical Properties

Property	Value	Test Method
Viscosity @ 25 °C	600–750 cps	ASTM D2196
Odour	Low - moderate	VDA 270
Shelf Life	36 months	Internal QC
Optimal UV Cure	385–405 nm	Internal
Cure Speed	Fast (2–3 sec layers)	Internal
Tensile Strength (MPa)	55	ASTM D638
Elongation at Break (%)	10.0	ASTM D638
Young’s Modulus (GPa)	1.20	ASTM D638
Shore Hardness (D)	80	ASTM D2240
Heat Deflection Temp (°C)	62	ASTM D648

5. Printer Compatibility

- MSLA resin printers
- Curing wavelength 365–405 nm
- Tested with Phrozen, Anycubic, Elegoo, Creality, Uniformation, and many more!

10. Disclaimer

The information provided in this Technical Data Sheet is based on laboratory testing and intended as a general guideline. Actual results may vary depending on printing conditions, curing methods, and environmental factors. Monocure3D assumes no liability for improper use of this product.

6. Printing & Post-Processing Guidelines

Tested with: Anycubic M7 / Phrozen Mini 8K

Layer thickness 50–100 µm
Base layer exposure 30–35 seconds
Normal exposure 2–3 seconds
Lift speed 70 mm/s
Lift height 8–12 mm



(Refer to printer settings database)

Post-Processing Steps

1. Wash in ResinAway® or IPA immediately after printing
2. Ultrasonic clean in ResinAway® for 5–10 minutes
3. Dry with compressed air or air-dry naturally
4. UV cure for at least 1 hour (recommend)
5. Final rinse with fresh water
6. Avoid storing model in high-temp areas

7. Health & Safety Information

- Not for intended for intraoral or direct food contact use.
- Use in a ventilated area. Avoid skin & eye contact.
- If contact occurs, wash thoroughly with soap and water.
- Refer to SDS (Safety Data Sheet) for complete handling guidelines www.monocure3d.com.au

8. Storage & Handling

- **Storage Temperature:** 10–30°C (Avoid direct sunlight)
- **Shelf Life:** 36 months
- **Handling:** Use recommend red PPE eg. **gloves & safety goggles** when handling liquid resin
- **Disposal:** Follow **local hazardous waste disposal regulations**.

9. Ordering Information

- **Available Sizes:** 1L & 5L UV-safe bottles
- **Where to Buy:** Available through **Monocure3D resellers**
- For technical support or bulk orders, contact:

support@monocure3d.com.au | www.monocure3d.com.au