

BioResin™ | Skin-Safe & Low Odour

1. Product Overview

Engineering resin developed for users with skin and odour sensitivities

Low-odour, skin-safe formulation adapted from Monocure3D dental BIO resin

High precision and dimensional stability for professional-grade results

Suitable for confined spaces and shared work environments

Available in Grey, Almond, and Clear colour options

Designed for home, education, and industrial applications

2. Key Features & Benefits

- ✓ Skin-safe formulation for sensitive users
- ✓ Very low odour and VOC profile
- ✓ Reliable detail, accuracy, and surface quality
- ✓ Stable curing behaviour with minimal warping
- ✓ Compatible with MSLA and DLP printers
- ✓ Easy post-processing with standard cleaning workflows

3. Applications

- ★ Functional prototypes
- ★ Educational models
- ★ General-purpose engineering parts
- ★ Artistic and display models
- ★ Clear parts for visual inspection or light transmission
- ★ Confined-space and shared-environment printing

4. Physical Properties

Property	Value	Test Method
Viscosity	700 cps @ 25°C	Brookfield RVT
Odour	None	Internal Method
Shelf Life	36 months	Internal Method
Optimal UV Cure	405 nm	Internal Method
Cure Speed	2.5 seconds @ 50 µm	Internal Method
Tensile Strength	49 MPa	ASTM D638-14
Elongation at Break	0.0	ASTM D638-14
Young's Modulus	1.8 GPa	ASTM D638-14
Shore Hardness	87 D	ASTM D2240
Heat Deflection Temp	130°C @ 0.45 MPa	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 10–200 µm
Base layer exposure 25–30 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

- 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