

TRY-IN BIOCOMPATIBLE RESIN

ARTG: No. 398012

1. Product Overview

Denture Try-In Resin is a biocompatible, high-precision material engineered for temporary denture try-in applications. Designed with a low-odour, easy-to-print formula, it provides excellent dimensional stability, detail accuracy, and surface finish. Suitable for evaluating fit, occlusion, aesthetics, and phonetics during patient try-in sessions, it ensures reliable results across MSLA and DLP 3D printers.

2. Key Features & Benefits

- ✓ Biocompatible (Class I) for temporary intraoral use
- ✓ Low odour formulation
- ✓ High-resolution printing and smooth surface finish
- ✓ Excellent dimensional stability
- ✓ Compatible with MSLA & DLP printers
- ✓ Easy characterisation and polishability

3. Applications

- Denture try-in fittings
- Occlusal and phonetic evaluations
- Aesthetic assessment
- Pre-prosthetic verification

4. Physical Properties

| Property               | Value               | Test Method |
|------------------------|---------------------|-------------|
| Appearance             | Off-White / A-Shade | Visual      |
| Odour                  | 1. Low              | VDA 270     |
| Tensile Strength (MPa) | 47                  | ASTM D638   |
| Viscosity @ 25°C cP    | 700                 | ASTM D2196  |
| Density g/cm³          | 1.1                 | ASTM D792   |
| Hardness (Shore D)     | 84                  | ASTM D2240  |
| Flexural Stress (MPa)  | 120                 | ASTM D790   |
| Elongation at Break    | 3.0%                | ASTM D638   |
| Heat Deflection Temp   | 130°C @ 0.45MPa     | ASTM E1356  |

5. Printer Compatibility

- Compatible with MSLA & DLP 3D Printers
- Asiga, SprintRay, Phrozen, Anycubic, Elegoo, and more
- Curing wavelength: 365–405nm UV

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

Printing Parameters

- Layer Thickness: 50–150µm
- Base Layer Exposure: 30 seconds
- Normal Layer Exposure: 2-3 seconds
- Lift Speed: 80 mm/s
- Lift Height: 10 mm



(Refer to printer settings database)

Post-Processing Steps

1. Pre-wash in ResinAway® & brush to remove excess resin
2. Submerge in ResinAway® in Ultrasonic for 5-10 minutes.
2. Dry the Model – Allow to air-dry or use compressed air.
3. Post-Cure – UV cure for 30-60 minutes.
4. OTTOFLASH G171: 2,000 flashes (recommended)
5. Final Finishing – Rinse with Fresh Water.

7. Health & Safety Information

- Biocompatible Class I (not for permanent intraoral 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](http://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](mailto:support@monocure3d.com.au) | [www.monocure3d.com.au](http://www.monocure3d.com.au)