

PRECISE+ MODEL RESIN

1. Product Overview

PRECISE+ Dental Model Resin is a high-precision resin engineered for advanced dental applications. With a completely reformulated base, it offers superior dimensional stability, low odour, and increased accuracy for diagnostic models, case planning, and orthodontic study casts. Designed for both MSLA and DLP resin 3D printers, PRECISE+ ensures high-quality, repeatable results.

2. Key Features & Benefits

- ✓ Enhanced Dimensional Stability
- ✓ Low Odour Formula
- ✓ High-Resolution Printing
- ✓ Easy-to-Print
- ✓ Compatible with MSLA & DLP Printers
- ✓ Increased Surface Hardness

3. Applications

- High-Precision Diagnostic Models
- Orthodontic & Restorative Planning
- Prosthetic & Crown Preparation Models
- Functional & Educational Models

4. Physical Properties

Property	Value	Test Method
Appearance	Opaque Almond	Visual
Odour	1. Low	VDA 270
Tensile Strength (MPa)	64	ASTM D638
Viscosity @ 25°C cP	700	ASTM D2196
Density g/cm³	1.1	ASTM D792
Hardness (Shore D)	92	ASTM D2240
Flexural Stress (MPa)	186	ASTM D790
Elongation at Break	3.0%	ASTM D638
Heat Deflection Temp	71°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: 50µm
Base Layer Exposure: 30 seconds
Normal Layer Exposure: 2.5 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. LED 405nm Post-Cure – UV cure for 30 minutes.
OTTOFLASH G171: 2,000 flashes (recommended)
4. Final Finishing – Rinse with Fresh Water.

7. Health & Safety Information

- Not approved for intraoral use.
- Use in a well-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