

Product Name:
LuxCreo Dental Model Resin DMR

Model: DMR

Product Description

DMR III is an orange-red resin that can be used for the fabrication of 3D dental models. Excelling with high precision, DMR III can restore the details of the margin and occlusal surface of dental models and produce precise fit dental prosthetics. DMR III has low water absorption, shrinkage rate, and deformation rate, and maintains dryness and strength even under long time. DMR III delivers both precision and stability.

Indications for Use

DMR III is a light-cured resin intended for 3D printing dental appliances, such as prosthodontics and orthodontics application models.

Specifications

1kg/bottle; 5kg/bottle.

Composition

It is composed of (methyl) acrylate monomer, (meth) acrylate resin, photon-initiator, and additive.

Property

- 1. Density: 1.10±0.5g/cm³
- 2. Liquid state

Contraindication

LuxCreo Dental Model Resin contains acrylate monomers and oligomers, it should not be used in susceptible people. It may cause skin irritation or other allergic reactions.

Warnings

- Wear protective gloves, protective clothing, eye

protection, face protection when handling LuxCreo Dental Surgical Guide Resin

- Do not swallow and avoid breathing dust/fume/gas/mist/vapors/spray; avoid direct skin and eye contact.

- If resin contacts skin, wash thoroughly with soap and plenty of water. If dermatitis or other symptoms persist, seek medical assistance.

- If resin contacts eyes, immediately flush by plenty of water. After initial flushing, remove any contact lenses and continue flushing for 15 minutes. Have eyes examined and tested by medical personnel.

- Inhalation: Irritating to respiratory system. Prolonged or repeated exposure may cause headache, drowsiness, nausea, weakness (severity of effects depends on the extent of exposure).

- Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract. Handle with care.

Precautions

- Wear PPE (Personal Protective Equipment) such as gloves and eye protections when handling.

- Provide proper ventilation while using indoor.

- Keep out of reach of children and animals.

- LuxCreo Dental Model Resin light curable resin must be protected from exposure to light, as spontaneous polymerization is possible. The bottle must be tightly closed after every usage and material removal.

- The resin must be used prior to the expiration date printed on the label.

Storage & Transportation

- Store in dry place 5~30°C (41~86°F) and away from sunlight, ultraviolet rays and heat.

- Ensure the bottle is sealed while not in use.

Shelf Life

12 Months.

Compatible Equipment

- LuxCreo Printers (including iLux Pro Dental, fastprint.io and Lux 3D+)

- LuxFlow Slicing Software

- iLuxWash Series Cleaning System delivered to the clinician for fabrication.

- iLuxCure Series (including iLuxCure Pro and iLuxCure Dental) / Uvitron Intelliray Series Post-curing System

Note: For alternative or additional compatible equipment, please contact LuxCreo's technical personnel.

Direction for Use

1 Design Information

- The scanning and construction of patient's STL data is the responsibility of the customer. A dental design service or dental CAD software (e.g. 3Shape Splint Studio) must be used to design it. This STL file is delivered to the clinician for fabrication.

2 Before Printing

- Please check the expiration date on the resin bottle. A failed print is possible if an expired resin is used. In case of exceeding the expiration date, the product is no longer guaranteed in terms of performance.

- Shake resin for 30 seconds prior to use for the best results.

3 Printing

- Software: Bring the designed STL files to LuxFlow. After importing CAD files designed by a third-party software (e.g. 3Shape Splint Studio) into LuxFlow, users can efficiently orient, support, batch, slice, and send parts to printer. Parts are automatically labeled on the support structure in accordance with the file name. File name is reflective of patient ID, allowing for track and trace throughout the manufacturing process.

- Start print.
LuxCreo printers will accept a job wirelessly via LuxFlow or physically via USB flash drive. User can

select job from machine or through LuxCreo's fleet management system.

- Remove printed parts from build platform. Remove the build platform from the machine. Place the build platform face up on a tray or clean surface. Remove printed parts from platform using a metal scraper angled at 15 degrees. Do not remove supports from 3d printed parts.

4 Post-processing

A-Cleaning Printed Parts

- Step 1: Place printed parts in an isopropyl alcohol (IPA) or ethanol ultrasonic or orbital shaker bath for 4 minutes to remove excess liquid resin from the printed part.

- Step 2: After washing, transfer parts to a second IPA or ethanol ultrasonic or orbital shaker bath for 4 minutes. Note: The total cleaning time in IPA or ethanol should not take longer than 10 minutes, as this may cause defects in the printed parts.

B-Post-Curing

- Allow parts to dry under an open fan or with compressed air. When fully dry, parts are ready for post-curing.
- Place the printed parts in a UV-cure box for an appropriate amount of time for final polymerization.

Printer	UV-Cure Box	UV-Cure Settings
iLux Pro Dental	iLuxCure Pro	20 minutes with "Dental Model" program
Lux 3D+	Uvitron	10 minutes with "P02" program

C-Finishing Parts

- Non-sterile device.

Disposal Considerations

- Do not pure liquid or partially cured liquid resin into drains.
- Dispose of the fully cured resin and containers as household waste.
- Dispose of liquid resin and its containers shall comply with local laws and regulations.

Manufacturer Information



Company: Ningbo Sezen Technology Co.,Ltd

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Company: SUNGO Europe B.V.

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Labels and Packing Logo Design:

Symbol	Introductions	Symbol	Introductions
	Batch code		Non-sterile
	Date of manufacture		Indicates the medical device manufacturer
	CE marking		Authorized representative in the European Union
	Use-by date		Read instructions
	Do not use if package is damaged		Temperature limit 5~30°C (41~86°F)
	Unique device identifier		Keep away from sunlight
	Harmful/Irritant		Health Hazards
	Fragile, handle with care		This end up
	Keep Dry		Recyclable

If assistance in setting up, using, or maintaining the device is needed or to report unexpected operation or events, please contact us.



DMR III

Instruction for Use

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