

TECHNICAL DATA SHEET

Castable LCD Resin - Castable Wax

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Product specifications

Our Castable Wax Resin is a highly accurate blue wax-based casting resin. It is designed to be used for direct investment casting parts for dental, jewellery and industrial applications. The wax component in this 3D printing resin offers a clean ash-free burnout. Furthermore it has an extremely low expansion factor. This ensures the wax filler to melt and shrink away from the mould without expanding, and by that protecting fragile investment moulds.

This wax-based castable 3D printing resin has an exceptionally low shrinkage factor. You're also able to print parts with smooth surfaces and incredibly fine detail. The Castable LCD Resin – Castable Wax has been tested extensively and validated by both dental technicians and jewellers.

Important key features

Ash-free burnout
Low expansion factor
High dimensional accuracy with low shrinkage factor
Smooth services with incredibly fine detail
Almost odorless processing

Suitable applications

Dental molds
Jewelry molds
Industrial molds

Recommended preparation

Make sure that the resin is at room temperature (22°C +/- 1°C) before use
The wax component in the resin makes the resin more viscous at lower temperatures.
Below 16°C the resin solidifies too much and gets too viscous for good 3D printing results
Shake the bottle for at least 2 minutes before each use.
After shaking the bottle, leave the resin to rest for 10 minutes to let air bubbles get out of the resin
The resin can be poured back from the vat into the bottle once your print is finished
Always use protective measurements like safety glasses and nitrile gloves when handling resins

Compatible 3D printers

Anycubic Photon
Elegoo Mars
Elegoo Saturn
All open-source SLA, DLP, and LCD 3D printers in the range of 385 – 405nm

Material properties

Density 1.18 g/cm³
Viscosity 700 cps at 25 °C
Appearance Blue liquid

Mechanical properties

	ASTM method	Value
Flexural strength	D790M	33 MPa
Flexural modulus	D2240	1,1 GPa
Shore hardness	D2240	77
Water sorption	D570-98	0,28%

Safety measures

Please always be aware that when 3D printing with resins that you are working with chemicals and that you should always be cautious and use the personal protective equipment as stipulated in our safety data sheets.
Always wear Respiratory Protection when sanding/cutting the resin object.
Always use nitrile gloves when handling resins and uncured resin objects.

Product export information

HS code	Description	Origin
2916140090	Resin for 3D printing	European Union

Disclaimer

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