RF-ZZ-07 Resin

RF-ZZ-07 Resin is a 3D printing material specifically developed for digital stent embedding casting, used for the production of casting blanks in precision casting technology. Traditional wax embedded casting of denture steel supports has always faced problems such as low production efficiency, complex processes, and high labor costs. Dental casting resin, with its fast and reliable combustion and no residual ash, ensures a perfect fit of the casting product. At the same time, there is no need for post curing and no sticky residue, making it very suitable for direct dewaxing casting production and shortening the casting time



MATERIAL STATUS	
Applications	Castable patterns for denture frameworks
Appearance	Green
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	High precision Good hardness Castable

PHYSICAL PROPERTIES	Testing method	Typical value
Density	ASTM D792	1.05-1.15 g/cm³
Viscosity	ASTM D445	100-200 mPa•s
Hardness	ASTM D2240	87-90D ShoreD
MECHANICAL PROPERTIES.		
Heating temperature	— — — —	850-1000 ℃
Residual ash content	— — — —	<0.1 %
Flexural Strength	ASTM D790	90 MPa
Flexural Modulus	ASTM D790	1300 MPa

*The above parameters are for reference only. The performance of cured materials will be affected by factors such as equipment, environment, parameter settings, post-processing methods, and testing methods, which will cause great differences. Please contact us if necessary

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PRINT PARAMETERS

Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm •min^{-1}	Retract Speed /mm •min^{-1}
Phrozen sonic mini8K S	6	25	3	4+4	60+180	180+60
Creality Halot-MAGE Pro	2	20	3	8+2	120+240	240+180
Elegoo saturn 4 Ultra	5	25	3	Default standard parameters of the device		
Anycubic Mono 4 Ultra	5	25	3	4+4	120+240	240+120
Elegoo saturn 3 Ultra	5	25	3	4+4	120+240	120+240
Anycubic M7 Pro	4	20	3	4+4	120+180	180+120

*Post-Processing Procedure and Note

1.The model can be cleaned using isopropyl alcohol in the ultrasonic cleaning machine, and try not to use high-frequency shock or force brushing the model to avoid damage to the surface details of the model.

2.Thoroughly blow the model dry with a hair dryer or the like;

3. After the model is printed and cleaned, the support can be removed directly without the need for secondary curing.

4. For some occasions where certain toughness is required, you can choose to cure with UV lamp for 5 minutes. The printed parts should be kept in a cool dry place.

*Safety Precautions

1.Eye Contact: Immediately flush with plenty of clean water (under eye lids) for at least 20 minutes. Hold eyelids apart to ensure flushing. Washing within one minute of contact is essential to achieve maximum effectiveness. Seek medical attention immediately.

2.Skin Contact:Remove contaminated clothing and rinse contact area thoroughly with soap and water.

3.Liquid resin must avoid contact with food, drink and human tissue.

4.For additional information please see the Material Safety Data Sheet.

*Safety Precautions

Please store in a cool place below 25 degrees Celsius, away from direct sunlight. Ordinary visible light may cause the resin to polymerize and gel.

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