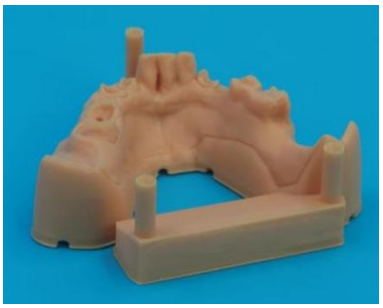
RF-ZX-03 Resin

RF-ZX-03 is a resin model material specially developed for large-scale production in dentistry. The printed dental models have excellent strength and stability performance, which can meet the common application model needs of dentistry such as self curing injection molding process active product working models, powder laying process orthodontic appliance product working models, orthodontic pressure film working models, and jaw molds. It is a multi-purpose model material that can balance economy, efficiency, and application performance.



MATERIAL STATUS	
Applications	Dental model
Appearance	Yellowish-brown
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	High precision、High strength High-temperature、Economical Aging resistance

PHYSICAL PROPERTIES	Testing method	Typical value	
Density	ASTM D792	1.05-1.15	g/cm³
Viscosity	ASTM D445	300	mPa•s
Hardness	ASTM D2240	83	ShoreD
MECHANICAL PROPERTIES.			
Tensile Strength	ASTM D638	72	MPa
Elongation at Break	ASTM D638	14	%
Flexural Strength	ASTM D790	69.6	MPa
Flexural Modulus	ASTM D790	1700	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	4.5	20	3	4+4	60+120	180+60
Elegoo saturn 3 Ultra	3	25	3	4+4	90+180	180+60
Creality Halot-MAGE Pro	1.2	15	3	10	120+180	180+120
Anycubic Mono 4 Ultra	3	30	3	4+4	120+240	
Elegoo saturn 4 Ultra	3	20	3	Default standard parameters of the device		
Anycubic M7 Pro	3	25	3	4+4	90+120	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. It is recommended to remove the support for model with supports first, and then post-cure treatment. If you remove the supports after it's been post-cured , it will easily cause damage to the contact surface of the support point;

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.

3.3D resin is not approved for use with food, drink, or medical application on the human body

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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