RF-ZJ-02 Resin

RF-ZJ-02 is water washable photo sensitive Resin, similar to standard resin, with low odor, low shrinkage, strong tensile and bending, and good toughness. The model can be cleaned with tap water, eliminating the step of alcohol cleaning, greatly shortening the post-processing time, which is economical, safe, and environmental-friendly.

This material features fast forming speed and high forming precision Its high degree of detail reproduction and good high-temperature resistance can meet the requirements for the production of high-temperature dental models. The stable material structure can withstand the high-pressure and high-temperature impacts of hot-pressing molding instruments.



MATERIAL STATUS	
Applications	Dental model
Appearance	Gray
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	High strength、water washable High elasticity、Fast forming rate

PHYSICAL PROPERTIES	Testing method	Typical value
Density	ASTM D792	1.05-1.15 g/cm³
Viscosity	ASTM D445	400 mPa•s
Hardness	ASTM D2240	85D ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTM D638	57.6 MPa
Elongation at Break	ASTM D638	14 %
Flexural Strength	ASTM D790	55.4 MPa
Flexural Modulus	ASTM D790	1500 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}	RetractSpeed /mm •min^{-1}
Phrozen sonic mini8K S	5	20	3	4+4	40+120	180+60
Elegoo saturn 3 Ultra	3	25	3	4+4	60+240	60+90
Creality Halot-MAGE Pro	1.5	10	3	8+2	180+180	180+180
Anycubic Mono 4 Ultra	4	25	3	4+4	120+180	240+180
Elegoo saturn 4 Ultra	3	25	3	Device default parameter		

*Post-Processing Procedure and Note

1.The model can be washed with water on the surface of the resin, and then washed with water or isopropyl alcohol in the ultrasonic cleaning machine. Try not to use high-frequency shock or scrub the model forcefully 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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