RF-ZJ-01 DM12 Resin

RF-ZJ-01 DM12 is a highly versatile photocurable resin, compatible with mainstream 385/405nm LCD and DLP 3D printing devices available on the market.It features a wide process window and high parameter tolerance with excellent adaptability, enabling stable mass production without complicated parameter debugging.The resin delivers outstanding fluidity and excellent release & forming performance, with low curing shrinkage and minimal warpage deformation. It also achieves superior dimensional accuracy and interlayer bonding stability.



MATERIAL STATUS	
Applications	Dental model
Appearance	Grey
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	High strength、High precision、High compatibility

PHYSICAL PROPERTIES	Testing method	Typical value
Density	ASTM D792	1.10-1.15 g/cm³
Viscosity	ASTM D445	360 mPa•s
Hardness	ASTM D2240	83-87 ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTM D638	74 MPa
Elongation at Break	ASTM D638	5 %
Flexural Strength	ASTM D790	89 MPa
Flexural Modulus	ASTM D790	1950 MPa
HDT@ 0.45 MPa	ASTM D648	70 ℃

*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	6	45	3	8	120	120
Anycubic photon mono2	5	30	3	8	120	120
Elegoo saturn 4 Ultra	4	25	3	8	120	120

*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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