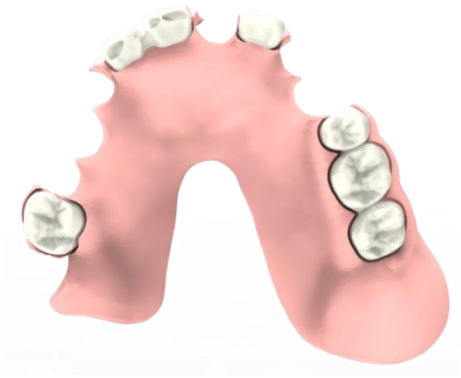
RF-TJ-09 Resin

RF-TJ-09 elastic denture base resin has resilience comparable to traditional injection molding And high precision，strong toughness and fatigue resistance, making it more comfortable and natural to wear.Can be applied for temporary transitional restoration of missing tooth areas before implantation or fixed restoration.



MATERIAL STATUS	
Applications	Flexible denture bases
Appearance	Red color
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	High strength、Good hardness Easy to polish、High elasticity High precision

PHYSICAL PROPERTIES	Testing method	Typical value
Density	ASTM D792	1.05-1.15 g/cm³
Viscosity	ASTM D445	650-700 mPa•s
Hardness	ASTM D2240	71-75D ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTM D638	45 MPa
Elongation at Break	ASTM D638	100 %
Flexural Strength	ASTM D790	50 MPa
Flexural Modulus	ASTM D790	1000 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	8	20	3	4+4	120	180
Elegoo saturn 4 Ultra	6	20	3	Default standard parameters of the device		
Elegoo saturn 3 Ultra	7	25	3	4+4	60+180	180+60
Creality HALOT-MAGE S	6	20	3	8	120+180	180+120
SHINING AccuFab-D1	7	25	3	4+4	60+180	180+60

*Post-Processing Procedure and Note

1.The print model should be cleaned with absolute ethanol/isoprpanol and can be cleaned with a low-frequency ultrasonic cleaner. If high-frequency and high-power ultrasonic cleaning is used for the model, it may cause certain damage to the surface 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.Liquid resin must avoid contact with food, drink and human tissue. Only fully cleaned and properly post-cured printed components are permitted for intra-oral denture-base application.

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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