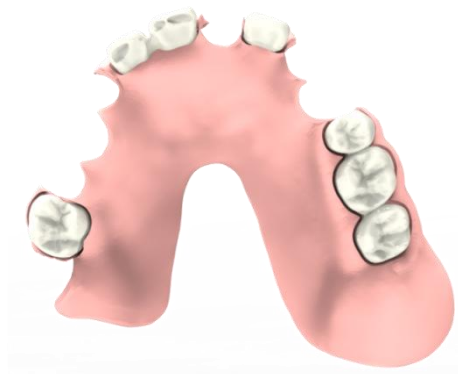


## RF-TJ-09 Resin

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      | Dental model                                                                      |
| Appearance        | Red color                                                                         |
| Form              | Resin                                                                             |
| Processing method | (surface exposure molding)LCD<br>(surface exposure molding)DLP                    |
| Characteristics   | High strength、 Good hardness<br>Easy to polish、 High elasticity<br>High precision |

| PHYSICAL PROPERTIES | Testing method | Typical value |                   |
|---------------------|----------------|---------------|-------------------|
| Density             | ASTM D792      | 1.05-1.15     | g/cm <sup>3</sup> |
| 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 | 95   | 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

## PRINT PARAMETERS

| Representative Machine | Exposure Time/s | Bottom Exposure Time/s | Bottom Layer Count | Lift Distance/mm                          | Lift Speed /mm •min <sup>-1</sup> | Retract Speed /mm •min <sup>-1</sup> |
|------------------------|-----------------|------------------------|--------------------|-------------------------------------------|-----------------------------------|--------------------------------------|
| 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                               |
| Crealiti 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.
- 3.3D 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.