

## RF-YG-08-20% Resin

RF-YG-08-20% has excellent occlusal load and anti - fracture capabilities, is highly wear - resistant (performing much better than finished teeth), shows strong corrosion resistance (not affected by daily changes), has a good anti - staining effect and excellent bonding performance and good biocompatibility, and can be used for immediate restoration after implant surgery, meeting long-term use requirements.



### MATERIAL STATUS

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Applications      | Dental model                                                             |
| Appearance        | A2                                                                       |
| Form              | Resin                                                                    |
| Processing method | (surface exposure molding)LCD<br>(surface exposure molding)DLP           |
| Characteristics   | High strength、Good hardness<br>High precision、High-temperature resistant |

| PHYSICAL PROPERTIES | Testing method | Typical value               |
|---------------------|----------------|-----------------------------|
| Density             | ASTM D792      | 1.30-1.40 g/cm <sup>3</sup> |
| Viscosity           | ASTM D445      | 4500 mPa•s                  |
| Hardness            | ASTM D2240     | 94 ShoreD                   |

### MECHANICAL PROPERTIES.

|                     |           |          |
|---------------------|-----------|----------|
| Tensile Strength    | ASTM D638 | 110 MPa  |
| Elongation at Break | ASTM D638 | 6 %      |
| Flexural Strength   | ASTM D790 | 150 MPa  |
| Flexural Modulus    | ASTM D790 | 3500 MPa |
| HDT@ 0.45 MPa       | ASTM D648 | 90 °C    |

\*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 <sup>-1</sup> | Retract Speed /mm • min <sup>-1</sup> |
|-------------------------|-----------------|------------------------|--------------------|-------------------------------------------|------------------------------------|---------------------------------------|
| Phrozen sonic mini8K S  | 5. 5            | 25                     | 3                  | 4+4                                       | 60+120                             | 180+60                                |
| Creality Halot-MAGE Pro | 1. 8            | 10                     | 3                  | 8+2                                       | 60+180                             | 180+60                                |
| Elegoo saturn 4 Ultra   | 3. 3            | 20                     | 3                  | Default standard parameters of the device |                                    |                                       |
| Anycubic Mono 4 Ultra   | 4. 3            | 25                     | 3                  | 4+4                                       | 90+120                             | 240+90                                |
| Elegoo saturn 3 Ultra   | 4. 1            | 25                     | 3                  | 4+4                                       | 60+180                             | 180+90                                |
| Anycubic M7 Pro         | 3               | 20                     | 3                  | 4+4                                       | 60+120                             | 180+60                                |

## \*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.