

Castable resin for Dental

Technical Data Sheet

The resin is developed for dental casting; very little burning ash and residues, good casting performance; high precision, printing details are clearly visible; low shrinkage performance, the printed model is not easy to deform.

Material Status	Mass Production				
Characteristics	Ash Free High precision				
Applications	• Dentistry				
Appearance	• Multiple Colors				
Form	• Resins				
Processing method	(surface exposure molding) LCD				
		Testing method	Typical	value	
Physical Properties					
Density		GB/T 4472	1.05-1.12	g/cm³	
Viscosity		GB/T 22235	100-150	mPa•s	
Hardness		ASTM D2240	80	Shore D	
Mechanical Properties					
Tensile Strength		ASTM D638	42-62	МРа	
Elongation at Break		ASTM D638	11-20	%	
Flexural Strength		ASTM D790	49-58	МРа	
IZOD Impact Strength		ASTM D638	44-49	J/m	
Thermal Properties					
Heat distortion Temperature		GB/T 1634	N/A	°C	

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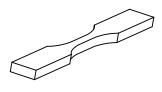
Recommended printing par	rameters		
Settings	Low Light Intensity	Machine Type Medium Light Intensity	High Light Intensity (Monochrome LCDScreen)
Representative Machine	AnyCubic Photon	eSUN LCD 3.0 Nova Bene 4 Creality LD-002R	Anycubic MONO X ELEGOO Saturn Phrozen Sonic Mini
Exposure Time/s	26-34	15-20	Not recommended
Bottom Layer Count		3-5	
Bottom Exposure Time	130-200	80-120	Not recommended
Lifting Distance/mm	5.5&6-inch screen:5-	5.5&6-inch screen: 5-6or Higher 8.9&13.3-inch screen: 8-12 or Highe	
Lift Speed/mm•min ⁻¹	90-150	90-120	Not recommended
Retract Speed/mm•min-1		150-200	

1. The above parameters are for reference only. The performance of the cured material will be affected by factors such as equipment, environment, parameter settings, post-processing methods, detection methods, etc., which will cause big differences. Please contact us if necessary; 2. Shake the resin well before use; please recycle the resin in time after printing; avoid prolonged soaking of the molded parts in the cleaning agent; 3. It is not recommended to add other ingredients or mix them to the resin to avoid molding failure or other problems; 4. The resin should be stored in a cool, dark place, and sealed with an opaque container; 5. The photopolymer resin is made of chemicals, which has a certain odor and skin irritation. Pay attention to protection during transportation and use. If the resin accidentally touches your skin or eyes, please rinse with plenty of water, and the skin can be cleaned with detergent, decontamination powder, etc.; if the allergic reaction is severe or even enters the mouth or nasal cavity, please seek medical attention immediately; 6. The model should be printed at a room temperature of 25-35 degrees. IF it is winter, it is recommended to turn on the air conditioner for printing.

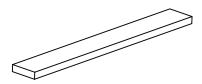
Matters needing attention

- 1. Shake well before printing
- 2. Dental casting resin needs to be fully cured to achieve the best mechanical strength. It is recommended that the surface is cured until it is not sticky.

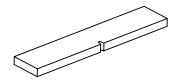
Mechanical Properties







Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

The physical properties, mechanical properties, and thermal properties of the resin are obtained based on the printing spline test.

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