

Castable resin for Jewelry Technical Data Sheet

The resin developed for jewelry casting; very little burning ash and residues, good casting performance, can produce high-quality jewelry pieces; high precision, the details of the fine and complex models in the jewelry industry are clearly visible; used for the loss of gold, silver and copper ornaments Wax casting.

Material Status	Mass Production				
Characteristics	Ash free High precision				
Applications	• Jewelry				
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	60	Shore D	
Mechanical Properties					
Tensile Strength		ASTM D638	42-62	MPa	
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 pa	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	Anycubic MONO X FLEGOO Saturn	
	THOUGH	Creality LD-002R	Phrozen Sonic Mini	
Exposure Time/s	16-20	10-13	Not recommended	
Bottom Layer Count		3-5		
Bottom Exposure Time	80-130	50-80	Not recommended	
Lifting Distance/mm	5.5&6-inch screen: 5-6	5.5&6-inch screen: 5-6or Higher 8.9&13.3-inch screen: 8-12 or Higher		
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.

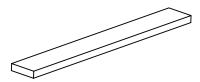
Matters needing attention

- 1. Shake well before printing
- 2. Jewelry 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.

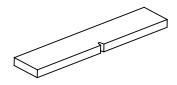
Mechanical Properties







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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