

High Temp Resin

Technical Data Sheet

"Good temperature resistance, can be heated for a long time at 120°C or boiled at 100°C. With high hardness, high strength and high rigidity, high precision, fully cured model has excellent mechanical properties and temperature resistance. Can be used for high temperature dental mold, to meet the needs of dental model assembly and manufacturing of fine, high temperature and low deformation."

Material Status	Mass Production			
material Status	Mass FloudCtion			
Characteristics	Heat resistanceHigh precision	High hardnessHigh strength	• High riş	gidity
Applications	MechanicalDental	• Automobile		
Appearance	Multiple Colors			
Form	• Resins			
Processing method	• (surface exposure r	nolding) LCD		
		Testing method	Typical	value
Physical Properties				
Density		GB/T 4472	1.09-1.10	g/cm³
Viscosity		GB/T 22235	180-220	mPa•s
Hardness		ASTM D2240	82-84	Shore D
Mechanical Properties				
Tensile Strength		ASTM D638	70-85	MPa
Elongation at Break		ASTM D638	35-40	%
Flexural Strength		ASTM D790	95-105	MPa
IZOD Impact Strength		ASTM D638	N/A	J/m
Thermal Properties				
Heat distortion Temperature		GB/T 1634	100.5	°C

Wuhan University Building A403-I,A901,No.6 Yuexing 2 Road,Nanshan District,Shenzhen,Guangdong



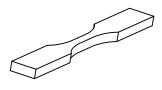
Recommended printing parameters						
Settings	Low Light Intensity	Machine Type Medium Light Intensity	High Light Intensity (Monochrome LCDScreen)			
Representative Machine	AnyCubic Photon	eSUN LCD 3.0 Nova Bene 4 Creality LD-002R	Anycubic MONO X ELEGOO Saturn Phrozen Sonic Mini			
Exposure Time/s	8-10	5-6	Not recommended			
Bottom Layer Count		3-5				
Bottom Exposure Time	40-60	30-40	Not recommended			
Lifting Distance/mm	5.5&6-inch screen: 5-	5.5&6-inch screen: 5-6 or 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.

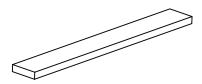
Matters needing attention

1.Shake well before printing 2.After printing, it should be fully cured (more than 10min), and then put in the oven at 150°C for 30min. The support can be removed after the post-processing 3. The wall thickness of the heat-resistant parts can be as thick as possible to achieve the heat-resistant performance, and the heat treatment time in the oven should not be too long "

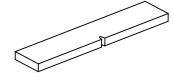
Mechanical Properties







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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Wuhan University Building A403-I,A901,No.6 Yuexing 2 Road,Nanshan District,Shenzhen,Guangdong

China

Tel +86 755 86581960 fax +86 755 26031982 Email: bright@brightcn.net www.esun3d.net