

eResin-PLA Pro

Technical Data Sheet

Based on eSUN self-produced PLA polyol synthesised, Compatible with color screen, mono screen, large and small size printers, good toughness, low odor, and smooth print surface. The molding precision is high, with high resolution, the surface of the printed product is smooth, and the printing details are clearly visible. It can be suitable for printing a variety of figures and dental model.

Material Status	Mass Production	1				
Characteristics	High strengthHigh toughnessHigh precision		 High resolution Smooth print so Wide compatib 	urface		
Applications	• Figure • Education		DentistryMechanical			• Decoration
Appearance	• Multiple Colors					
Form	• Resins					
Processing method	• (surface exposure r	molding) LCD				
		Testing method		Typical	value	
Physical Properties		0				
Density		GB/T 4472		1.09-1.10	g/cm³	
Viscosity		GB/T 22235		200-300	mPa•s	
Hardness		ASTM D2240		78-80	Shore D	
Mechanical Properties						
Tensile Strength		ASTM D638		37-48	MPa	
Elongation at Break		ASTM D638		25-28	%	
Flexural Strength		ASTM D790		36-49	MPa	
IZOD Impact Strength		ASTM D638		32-36	J/m	
Thermal Properties						
Heat distortion Temperature		GB/T 1634		N/A	°C	

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Recommended printing parameters

	Machine Type					
Settings	Low Light Intensity	Medium Light Intensity	High Light Intensity (Monochrome LCDScreen)			
	AnyCubic	eSUN LCD 3.0	Anycubic MONO X			
Representative Machine	Photon	Nova Bene 4	ELEGOO Saturn			
		Creality LD-002R	Phrozen Sonic Mini			
Exposure Time/s	13-14	6-7	2-4			
Bottom Layer Count	3-5					
Bottom Exposure Time	≥60	≥60	≥30			
Lifting Distance/mm	5.5&6-inch screen:	n: 5-6or Higher 8.9&13.3-inch screen: 8-12or Higher				
Lift Speed/mm•min-1	90-150	90-120	50-90			
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.

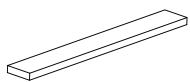
Matters needing attention

Shake well before printing

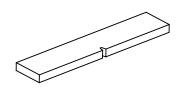
Mechanical Properties

Tensile testing specimen ASTM D638





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.

Notice

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