

eResin-Flex

Technical Data Sheet

High elongation at break, good elasticity, tear resistance, tensile, bending and compression, quick rebound, a certain wear resistance. Relative high success rate of release, easy to print. The parts are soft and elastic, resistant to bending. Can be used on product models that require softness.

Material Status	Mass Production			
Characteristics	Good elasticityTear resistance	Bending resistantHigh toughness		
Applications	MechanicalAutomobile	Electronic appliances Conveying pipeline	• S _I	porting goods
Appearance	Multiple Colors			
Form	• Resins			
Processing method	• (surface exposure r	nolding) LCD		
		Testing method	Typical	value
Physical Properties		- U		
Density		GB/T 4472	1.02-1.05	g/cm³
Viscosity		GB/T 22235	600-1400	mPa•s
Hardness		ASTM D2240	60-90A	Shore D
Mechanical Properties				
Tensile Strength		ASTM D638	4-10	MPa
Elongation at Break		ASTM D638	100-350	%
Flexural Strength		ASTM D790	N/A	МРа
IZOD Impact Strength		ASTM D638	N/A	J/m
Thermal Properties				
Heat distortion Temperature		GB/T 1634	N/A	°C

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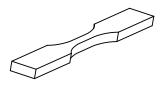
Recommended printing par	rameters		
Settings	Low Light Intensity	Machine Type Medium Light Intensity	High Light Intensity (Monochrome LCDScreen)
Representative Machine	AnyCubic	eSUN LCD 3.0	Anycubic MONO X
	Photon	Nova Bene 4	ELEGOO Saturn
		Creality LD-002R	Phrozen Sonic Mini
Exposure Time/s	8-10	5-6	Not recommended
Bottom Layer Count		3-5	
Bottom Exposure Time	40-70	30-40	Not recommended
Lifting Distance/mm	5.5&6-inch screen: 5-6or Hig	gher 8.9&13.3-inch so	creen: 8-12 or Higher
Lift Speed/mm•min ⁻¹	50	50	Not recommended
Retract Speed/mm•min-1		100	

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.

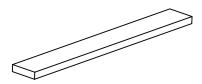
Matters needing attention

1. Shake well before printing 2. Slice setting: Stronger support: Avoild break with main body Denser support: Avoid deformation dislocation 3. Printing data Higher lifting distance: full film realse Lifting distance: ≥6mm Slowing down Lifting speed: avoid breaking Lifting speed: ≤60mm/min Control leveling Light off delay≥6s 4. Post Curing Properly control the post curing time, the longer the exposure time, the higher the hardness of the curing material, the worse the flexibility, and the heavier the yellowing To ensure good flexibility of the material and avoid hardening problems caused by post-curing, it is recommended to clean the printed parts after printing instead of post-curing The surface sticky hand condition will be gradually improved under the indoor weak light condition. Avoid strong light exposure for later storage

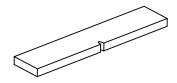
Mechanical Properties







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.

Notice

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