

PW100 PLA Water Washable Resin

Technical Data Sheet

PW100 is a water-washable resin containing eSUN's own PLA polyol raw material, which combines the advantages of eResin-PLA and water-washable resin. It has a low smell and makes people feel better when printing. The low viscosity makes the resin flow easily. The resin has high molding accuracy and excellent detail. It can be washed with clean water, eliminating the alcohol cleaning step, improving production efficiency and making it safer to use. The resin is compatible and suitable for most LCD and DLP printers in the 405nm band.



MATERIAL STATUS

Characteristics	<ul style="list-style-type: none"> • Washable • Low viscosity • High precision 	<ul style="list-style-type: none"> • Balance of rigidity and toughness
Applications	<ul style="list-style-type: none"> • Education • Garage kit 	
Appearance	<ul style="list-style-type: none"> • Multiple Colors 	
Form	<ul style="list-style-type: none"> • Resin 	
Processingmethod	<ul style="list-style-type: none"> • (surfaceexposuremolding)LCD • (surfaceexposuremolding)DLP 	



PHYSICAL PROPERTIES	Testing method	Typical value
Density	GB/T4472	1.096 g/cm ³
Viscosity	GB/T22235	255-269 mPa·s
Hardness	ASTMD2240	80-81 ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTMD638	37-50 MPa
Elongation at Break	ASTMD638	21-25 %
Flexural Strength	ASTMD790	42-58 MPa
Izod Notch Impact Strength	ASTMD638	22-25 J/m

*The above parameters are for reference only. The performance of cured materials will be affected by factors such as equipment, environment, parameter settings, post-processing methods, and testing methods, which will cause great differences. Please contact us if necessary

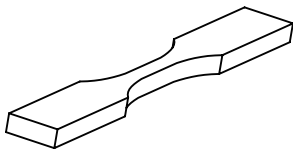
PRINT PARAMETERS						
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm · min ⁻¹	Retract Speed /mm · min ⁻¹
ELEGOO Saturn	3.5	40	5	7	70	210
ELEGOO Mars 2 Pro	3.5	40	5	5	80	210
ANYCUBIC Photon Mono X	1.8	20	6	8	180	240
ANYCUBIC Photon Mono 4K	3.7	42	6	6	240	360
ANYCUBIC Photon Mono SE	3.1	36	6	6	240	240
VOXELAB Proxima 6.0	3.5	40	6	5	60	150
VOXELAB Proxima 8.9	3.4	42	5	8	60	150
PHROZEN Sonic Mighty 4K	3.5	40	6	8	60	150
NOVA3D whale2	3.2	37	5	4	120	120
CREALITY HALOT ONE	3.7	43	10	6	60	60
CREALITY LD006	2.3	25	5	7	70	150
AnyCubic Ultra	4	45	4	5	120	120
PHROZEN Sonic Mighty 8K	3	35	5	8	60	150



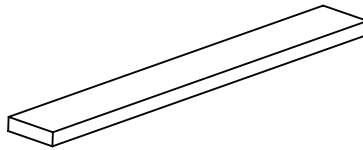
MATTERS NEEDING ATTENTION

1. Shake well before use, wear gloves and mask when using.
2. It is recommended to seal and store at an ambient temperature of 20-35°C to avoid direct sunlight.
3. This product can not be consumed, pay attention to keep away from children and pregnant women.
4. The printed model needs to be cleaned with 95% alcohol (except for the water-washable resin) to make the surface of the model non-sticky.

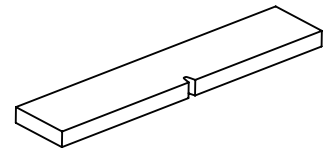
MECHANICAL PROPERTIES



Tensile testing specimen ASTM D638



Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

NOTICE

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