

S300 Standard Resin

Technical Data Sheet

S300 is a high-precision general-purpose resin. This resin is highly rigid and capable of printing miniature models. The resin prints quickly and has broad compatibility, fitting mainstream high-speed printers on the market. It also features high molding precision, with a smooth and delicate surface, ensuring printed models are free from layer lines and pixelation.



MATERIAL STATUS

Characteristics	<ul style="list-style-type: none"> • High Rigidity • Compatible Light • Cost-effective
Applications	<ul style="list-style-type: none"> • Anime figure • Dental model • Daily decoration
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	1.05- 1.20 g/cm ³
Viscosity	GB/T22235	200-500 mPa • s
Hardness	ASTMD2240	80-83 ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTMD638	50-70 MPa
Elongation at Break	ASTMD638	5-15 %
Flexural Strength	ASTMD790	70-90 MPa
Izod Notch Impact Strength	ASTMD638	5-15 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

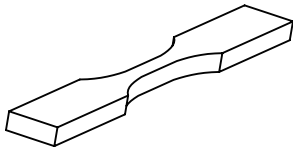
PRINT PARAMETERS						
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm • min ⁻¹	Retract Speed /mm • min ⁻¹
ELEGOO Saturn	3.5	30	5	7	70	210
ELEGOO Mars 2 Pro	3.5	30	5	5	80	210
ANYCUBIC Photon Mono X	2	25	6	8	180	240
ANYCUBIC Photon Mono 4K	4.2	40	6	6	240	360
ANYCUBIC Photon Mono SE	3.2	30	6	6	240	240
VOXELAB Proxima 6.0	3.8	37	6	5	60	150
VOXELAB Proxima 8.9	3.8	32	5	8	60	150
PHROZEN Sonic Mighty 4K	3.5	35	6	8	60	150
NOVA3D whale2	3.5	35	5	4	120	120
CREALITY HALOT ONE	4.2	40	10	6	60	60
CREALITY LD006	2.8	35	5	7	70	150
AnyCubic Ultra	4	37	4	5	120	120
PHROZEN Sonic Mighty 8K	3	30	5	8	60	150



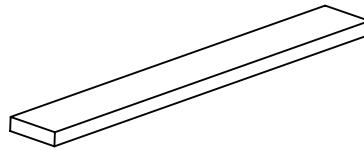
MATTERS NEEDING ATTENTION

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.

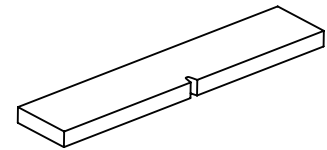
MECHANICAL PROPERTIES



Tensile testing specimen ASTM D638



Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

NOTICE

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