

## SG100 Surgical Guide Resin

SG100 is a high strength dental resin for 3D printed implant guides. The resin has high mechanical strength and stability to meet the requirements of guide materials. The printed models are easy to polish and have a low water sorption. The surface quality of the printed models is also excellent, with clear and transparent colours for easy observation of the oral cavity.



### MATERIAL STATUS

Characteristics	Clear and Transparent Color	FDA-compliant material
	High Mechanical Stability	Good Strength and Toughness
	Resistant to 134 degrees Celsius steam sterilisation for 4 minutes	
	Iodine-resistant soak for 2 hours	
Applications	Dental model	
Appearance	Clear	
Form	Resin	
Processing method	(surface exposure molding)LCD	
	(surface exposure molding)DLP	



PHYSICAL PROPERTIES	Testing method	Typical value	
Density	ASTM D792	1.05-1.25	g/cm <sup>3</sup>
Viscosity	ASTM D445	1292	mPa • s
Hardness	ASTM D2240	80-82	ShoreD
MECHANICAL PROPERTIES			
Tensile Strength	ASTM D638	76.52	MPa
Elongation at Break	ASTM D638	10.75	%
Flexural Strength	ASTM D790	112.5	MPa
Izod Notch Impact Strength	ASTM D256	21.44	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

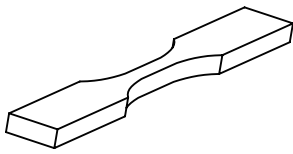
PRINT PARAMETERS						
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm • min <sup>-1</sup>	Retract Speed /mm • min <sup>-1</sup>
ELEGOO Saturn	4	30	5	7	70	150
ELEGOO Mars 2 Pro	4	30	5	5	80	150
ANYCUBIC Photon Mono X	4	25	6	8	120	150
ANYCUBIC Photon Mono 4K	4	30	6	6	120	240
ANYCUBIC Photon Mono SE	4	30	6	6	120	240
VOXELAB Proxima 6.0	4	30	6	6	60	150
VOXELAB Proxima 8.9	4	30	5	8	60	150
PHROZEN Sonic Mighty 4K	4	30	6	8	60	150
NOVA3D whale2	4	30	5	6	100	150
CREALITY HALOT ONE	4	30	5	6	60	150
CREALITY LD006	3	25	5	7	70	150
AnyCubic Ultra	4	30	5	5	120	150
PHROZEN Sonic Mighty 8K	4	30	5	8	60	150



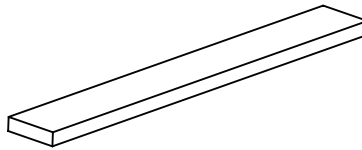
#### MATTERS NEEDING ATTENTION

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.

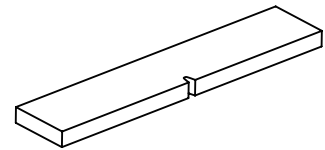
#### MECHANICAL PROPERTIES



Tensile testing specimen ASTM D638



Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

#### NOTICE

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