

## TC100 Temporary Crown&Bridge Resin

TC100 is a dental specialized resin used for 3D printed temporary teeth, bridges, inlays and veneers.

The material has a high molding accuracy and excellent marginal adaptability. The material has excellent mechanical properties with high strengthness against fracture, as well as some wear resistance and very low water absorption, making it suitable for short-term try-in.



### MATERIAL STATUS

Characteristics	High precision Excellent mechanical properties Good wear resistance
Applications	Temporary teeth, bridges, inlays and veneers
Appearance	A1 A2 A3
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	150-350 mPa • s
Hardness	ASTM D2240	80-90 ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTM D638	27-33 MPa
Elongation at Break	ASTM D638	6.45 %
Flexural Strength	ASTM D790	31 MPa
Izod Notch Impact Strength	ASTM D256	32 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

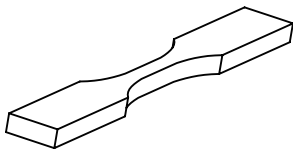
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm • min <sup>-1</sup>	Retract Speed /mm • min <sup>-1</sup>
ELEGOO Saturn	3.2	35	5	7	70	210
ELEGOO Mars 2 Pro	3.2	35	5	5	80	210
ANYCUBIC Photon Mono X	2.5	25	6	8	180	240
ANYCUBIC Photon Mono 4K	3	32	6	6	240	360
ANYCUBIC Photon Mono SE	3	31	6	6	240	240
VOXELAB Proxima 6.0	3.5	35	6	5	60	150
VOXELAB Proxima 8.9	3.5	33	5	8	60	150
PHROZEN Sonic Mighty 4K	3.5	30	6	8	60	150
NOVA3D whale2	3	30	5	4	120	120
CREALITY HALOT ONE	3	35	10	6	60	60
CREALITY LD006	2.5	20	5	7	70	150
AnyCubic Ultra	2.8	35	4	5	120	120
PHROZEN Sonic Mighty 8K	3	35	5	8	60	150



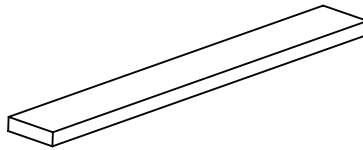
#### MATTERS NEEDING ATTENTION

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.

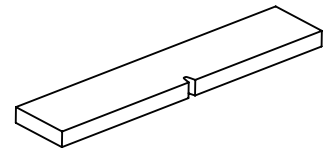
#### MECHANICAL PROPERTIES



Tensile testing specimen ASTM D638



Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

#### NOTICE

All information supplied by or on behalf of eSUN in relation to this product, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but the product is sold "as is". eSUN assumes no liability and makes no representations or warranties, express or implied, of merchantability, fitness for a particular purpose, or of any other nature with respect to information or the product to which information refers and nothing herein waives any of the seller's conditions of sale.

