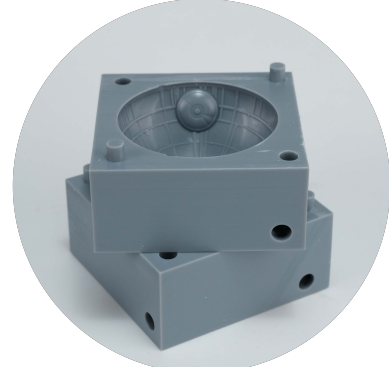


High Temp Resin

High-Temperature Resistant Resin Possessing exceptional temperature resistance, it has been rigorously tested and proven to maintain its shape stability without any deformation after being heated in a 200°C oven for over 30 minutes. Even when placed in a 220°C oil bath for half an hour, its mechanical strength remains perfectly intact. According to tests conducted by professional institutions, the thermal deformation temperature of this material can reach over 280°C, demonstrating extraordinary high-temperature resistance performance.



Material Status	Mass Production		
Characteristics	<ul style="list-style-type: none"> • Heat resistance • High precision 	<ul style="list-style-type: none"> • High hardness • High strength 	<ul style="list-style-type: none"> • High rigidity
Applications	<ul style="list-style-type: none"> • Mechanical • Dental 	<ul style="list-style-type: none"> • Automobile 	
Appearance	<ul style="list-style-type: none"> • Multiple Colors 		
Form	<ul style="list-style-type: none"> • Resins 		
Processing method	<ul style="list-style-type: none"> • (surface exposure molding) LCD 		

	Typical value	Testing method
Physical Properties		
Density	1.09-1.10 g/cm ³	GB/T 4472
Viscosity	650 mPa•s	GB/T 2235
Hardness	83-84 Shore D	ASTM D2240

Wuhan University Building A403-I,A901,No.6 Yuexing 2 Road,Nanshan District,Shenzhen, Guangdong China
 Tel: +86 755 86581960
 fax: +86 755 26031982
 Email: support@esun3d.com
 www.esun3d.com



Mechanical Properties	Original components		Post-curing		Post-curing and heating treatment		
Tensile Strength	45.4	MPa	53.3	MPa	55.1	MPa	ASTM D638
Elongation at Break	11.8	%	6.4	%	4.7	%	ASTM D638
Flexural Strength	73.6	MPa	92.7	MPa	136	MPa	ASTM D790
IZOD Impact Strength	12	J/m	17	J/m	15	J/m	ASTM A256

Thermal Properties							
Heat distortion Temperature@1.8MPa	49.3	°C	86.6	°C	134.7	°C	GB/T 1634
Heat distortion Temperature@0.45MPa	65.5	°C	> 280	°C	> 280	°C	GB/T 1634

*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

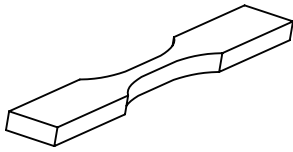
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm · min ⁻¹	Retract Speed /mm · min ⁻¹
ELEGOO Saturn	5	60	5	7	70	210
ELEGOO Mars 2 Pro	5	60	5	5	80	210
ANYCUBIC Photon Mono X	5	65	6	8	180	240
ANYCUBIC Photon Mono 4K	5	60	6	6	240	360
ANYCUBIC Photon Mono SE	6	60	6	6	240	240
VOXELAB Proxima 6.0	6	60	6	5	60	150
VOXELAB Proxima 8.9	6	60	5	8	60	150
PHROZEN Sonic Mighty 4K	5	60	6	8	60	150
NOVA3D whale2	5	60	5	4	120	120
CREALITY HALOT ONE	5	60	10	6	60	60
CREALITY LD006	3	65	5	7	70	150
AnyCubic Ultra	5	60	4	5	120	120
PHROZEN Sonic Mighty 8K	5	60	5	8	60	150



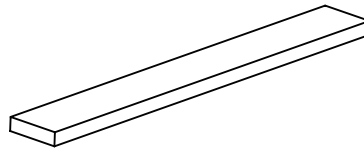
MATTERS NEEDING ATTENTION

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.

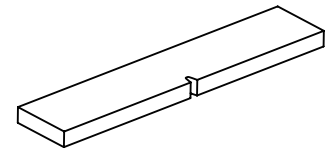
MECHANICAL PROPERTIES



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.

