

## DM100 Dental Restoration Model Resin

DM100 is designed for printing high-precision and low-shrinkage models and is suitable for most LCD/DLP printers in the 405nm wavelength. The resin has high molding accuracy and dimensional stability (greater than 95% retention of dental mold accuracy within 7 days), making it particularly suitable for printing extremely demanding dental molds for higher quality production. This dental model also has excellent surface quality and abrasion resistance, thus reducing superficial damage caused by wearing crowns.



### MATERIAL STATUS

Characteristics	<ul style="list-style-type: none"> <li>• High precision</li> <li>• High dimensional stability</li> <li>• Good model texture</li> </ul>	<ul style="list-style-type: none"> <li>• Balance of rigidity and toughness</li> </ul>
Applications	<ul style="list-style-type: none"> <li>• Dental model</li> </ul>	
Appearance	<ul style="list-style-type: none"> <li>• Multiple Colors</li> </ul>	
Form	<ul style="list-style-type: none"> <li>• Resin</li> </ul>	
Processing method	<ul style="list-style-type: none"> <li>• (surface exposure molding) LCD</li> <li>• (surface exposure molding) DLP</li> </ul>	



PHYSICAL PROPERTIES	Testing method	Typical value
Density	GB/T4472	1.100 g/cm <sup>3</sup>
Viscosity	GB/T22235	292 mPa·s
Hardness	ASTMD2240	81.7 ShoreD
MECHANICAL PROPERTIES		
Tensile Strength	ASTMD638	51-62 MPa
Elongation at Break	ASTMD638	12-14 %
Flexural Strength	ASTMD790	58-72 MPa
Izod Notch Impact Strength	ASTMD638	30-34 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

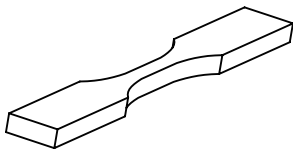
PRINT PARAMETERS						
Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm·min <sup>-1</sup>	Retract Speed /mm·min <sup>-1</sup>
ELEGOO Saturn	4.5	35	5	7	70	210
ELEGOO Mars 2 Pro	4.5	35	5	5	80	210
ANYCUBIC Photon Mono X	2.2	17	6	8	180	240
ANYCUBIC Photon Mono 4K	4.7	39	6	6	240	360
ANYCUBIC Photon Mono SE	3.4	31	6	6	240	240
VOXELAB Proxima 6.0	4	35	6	5	60	150
VOXELAB Proxima 8.9	3.8	38	5	8	60	150
PHROZEN Sonic Mighty 4K	3.8	35	6	8	60	150
NOVA3D whale2	3.5	33	5	4	120	120
CREALITY HALOT ONE	3.7	43	10	6	60	60
CREALITY LD006	2.5	20	5	7	70	150
AnyCubic Ultra	4.3	42	4	5	120	120
PHROZEN Sonic Mighty 8K	3.5	38	5	8	60	150



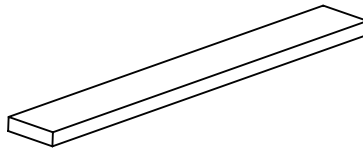
#### MATTERS NEEDING ATTENTION

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.

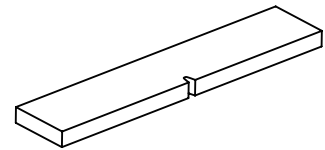
#### MECHANICAL PROPERTIES



Tensile testing specimen ASTM D638



Flexural testing specimen ASTM D790



IZOD Impact Strength ASTM D638

#### NOTICE

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