

# zDental Model X Stone

## Technical Data Sheet

### Product Discription:

zDental Model X Stone is a light-curing resin for the production of dental models using 3D LCD printers utilizing wavelengths between 385nm–405nm. This resin is intended to print diagnostic models and orthodontic models requiring excellent precision, long-term dimensional stability, high reliability, superior fit and easy-cleaning. zDental Model X Stone has excellent anti-sedimentation activity which makes handling easily.

### Characteristics:

Tested Property	Result	Standard/Method
<b>Tensile Property</b>		
Tensile Strength, MPa	38.5	ASTM D638
Tensile Modulus, MPa	1235.8	ASTM D638
Elongation, %	11.20	ASTM D638
<b>Flexural Property</b>		
Flexural Modulus, MPa	60.4	ISO 178
Flexural Strength, MPa	1707.3	ISO 178
<b>Impact Property</b>		
IZOD Impact (Notched) , J/ m	24.65	ASTM D256

Physical Characteristics		
Shore D Hardness	85 D	ASTM D2240
Heat Deflection Temp.(1.82 MPa)	51.8°C	ASTM D 648-16
Heat Deflection Temp.(0.45 MPa)	63.6°C	ASTM D 648-16
Viscosity (at 25°C)	370 mPa·s	

1. The testing samples are printed by NBEE with default parameters of 100  $\mu\text{m}$  layer thickness, and post-cured by UCure with default parameters of the zDental Model X Stone resin.
2. Mechanical properties will vary based on printer, model orientation onto build platform, printing parameters used, cleaning and post-curing of the printed parts, and so on. Learn more at [www.UNIZ.com](http://www.UNIZ.com).
3. UNIZ guarantee that the information and data stated herein are based upon tests in our lab and are considered to be reliable and accurate. This information and data are used for reference only, no warranty as a legal basis. User should be tested by themselves firstly.