zDental Cast

Technical Data Sheet

Product Discription:

zDental Cast is a light-curing resin for the fabrication of castable dental models using 3D LCD printers utilizing wavelengths between 385nm–405nm. zDental Cast is used to print castable removable denture supports, crowns and copings, and other prosthetic cases. zDental Cast is a fast-printing resin with properties of excellent precise, easy-cleaning, complete ablation at high temperature and no ash residue.

Characteristics:

Tested Property	Result	Standard/Method
Tensile Property		
Tensile Strength, MPa	16.20	ASTM D638
Tensile Modulus, MPa	1108.18	ASTM D638
Elongation, **%**	10.52	ASTM D638
Flexural Property		
Flexural Modulus, MPa	27.33	ISO 178
Flexural Strength, MPa	1172.13	ISO 178
Impact Property		
IZOD Impact (Unnotched) , J/ m	86.07	ASTM D256

Physical Characteristics		
Shore D Hardness	82 D	ASTM D2240
Heat Deflection Temp.(1.82 MPa)	46.2℃	ASTM D 648-16
Heat Deflection Temp.(0.45 MPa)	72.8℃	ASTM D 648-16
Viscosity (at 25℃)	200 -700 mPa·s	

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1. The testing samples are printed by NBEE with default parameters of 50 µm layer thickness, and post-cured by UCure with default parameters of the zDental Cast 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.

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 themself firstly.