Crestaform® DENTAL

ORTHOMODEL (GREY & IVORY)

Technical Data Sheet

Introduction

Crestaform® Dental Orthomodel is optimised for rapid production of orthodontic dental models featuring outstanding part strength and rigidity, and exceptional detail capture and design fidelity. Crestaform® Dental Orthomodel boasts robust thermal resistance ensuring maximum compatibility with the thermoforming process. It is compatible with open-source 385 and 405nm mSLA/LCD & DLP vat-based 3D printers and is also validated on Asiga machines.

General Properties	Test	Typical Values	
Viscosity @ 25^{0}C	Cone & Plate, 0-5P	4.2 Ps	
Liquid Density @ 23^{0}C	Anton Paar	1.12 g/cm^3	
Tensile Properties*	**Test**	**Typical Values**	
		Green	**Cured**
Tensile Modulus	ISO 527-2	1500 MPa	2800 MPa
Tensile Strength	ISO 527-2	29 MPa	60 MPa
Elongation at Break	ISO 527-2	30 %	5.0 %
Flexural Properties**	**Test**	**Typical Values**	
Flexural Modulus	ISO 178	2600 MPa	
Flexural Strength	ISO 178	90 MPa	
Other Properties**	**Test**	**Typical Values**	
Heat Deflection Temperature	ISO 75-2, Method B (0.45 MPa)	55 ^{0}C	
Shore D Hardness	ISO 868	83D	

* Testing specimens Type 5A printed edgewise at 0° orientation and UV post cured for 30 mins using 405nm Formlabs Formcure

** Testing specimens printed flatwise, and UV post cured for 30 mins using 405nm Formlabs Formcure

Printing Performance

Quality of the printed parts are impacted by combination of 3D printer and material used. More information about printing parameters as well as Usage, Storage, Packaging and Health and Safety can be found in the relevant product guideline.

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