

Introduction

Crestaform® Dental Orthomodel Grey 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 Grey 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 and Rapidshape machines.

General Properties	Test	Typical Values	
Viscosity @ 25°C	Cone & Plate, 0-5P	4.0 Ps	
Liquid Density @ 23°C	Anton Paar	1.12 g/cm³	
Tensile Properties*	Test	Typical Values	
		Green	Cured
Tensile Modulus	ISO 527-2	1210 MPa	3689 MPa
Tensile Strength	ISO 527-2	25 MPa	64 MPa
Elongation at Break	ISO 527-2	42 %	4.6 %
Flexural Properties*	Test	Typical Values	
Flexural Modulus	ISO 178	2828 MPa	
Flexural Strength	ISO 178	99 MPa	
Other Properties	Test	Typical Values	
Heat Deflection Temperature*	ISO 75-2, Method A (1.8 MPa)	63°C	
Tensile Modulus	ISO 868	83 D	

* Testing specimens Type 5A printed edgewise at 50° orientation and UV post cured for 16 mins @ 60°C 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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