

Introduction

Crestaform® 3D Rapid Grey is a general-purpose resin with superior mechanical performance and excellent reactivity unlocking the potential of next generation high resolution LCD and DLP 3D printers. Crestaform® 3D Rapid Grey excels in applications where high resolution and intricate details are necessary such as modelling and prototyping, The product is optimised for 385nm and 405nm wavelengths.

General Properties	Test	Typical Values	
Viscosity @ 25°C	Cone & Plate, 0-5P	2.0 Ps	
Liquid Density @ 23°C	Anton Paar	1.07 g/cm ³	
Tensile Properties*	Test	Typical Values	
		Green	Cured
		Tensile Modulus	ISO 527-2
		1900 MPa	2700 MPa
Tensile Strength	ISO 527-2	42 MPa	58 MPa
Elongation at Break	ISO 527-2	6.5 %	3.5 %
Flexural Properties*	Test	Typical Values	
Flexural Modulus	ISO 178	1962 MPa	
Flexural Strength	ISO 178	68 MPa	
Other Properties	Test	Typical Values	
Heat Deflection Temperature*	ISO 75-2, Method A (1.8 MPa)	65°C	
Shore D Hardness	ISO 868	84 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 edgewise at 0° orientation and UV post cured for 16 mins using 405nm Formlabs Formcure

*** Testing specimens printed flatwise, and UV post cured for 16 mins @ 60 deg C 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