

TOUGH (GREY) Technical Data Sheet

Introduction

Crestaform® 3D Tough Grey is an ABS-like material with lower crack propagation unlocking the potential of next generation high resolution LCD and DLP 3D printers. Crestaform® 3D Tough Grey combines strength, stiffness and resilience with high resolution, making it perfect for functional / engineering parts, as well as in applications such as modelling and prototyping. The product is optimised for 385 nm and 405 nm wavelengths.

General Properties	Test	Typical Values	
Viscosity @ 25°C	Cone & Plate, 0-5P	6.5 Ps	
Liquid Density @ 23°C	Anton Paar	1.13 g/cm ³	
		Typical Values	
Tensile Properties*	Test	Green	Cured
Tensile Modulus	ISO 527-2	670 MPa	2400 MPa
Tensile Strength	ISO 527-2	18.5 MPa	59 MPa
Elongation at Break	ISO 527-2	50.2 %	13 %
Flexural Properties*	Test	Typical Values	
Flexural Modulus	ISO 178	2091 MPa	
Flexural Strength	ISO 178	72 MPa	
Other Properties	Test	Typical Values	
Heat Deflection Temperature*	ISO 75-2, Method A (1.8 MPa)	51°C	
Izod Impact Strength**	ASTM D256 (notched)	25.12 J/m	
Tensile Modulus	ISO 868	81 D	

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

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^{**} 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