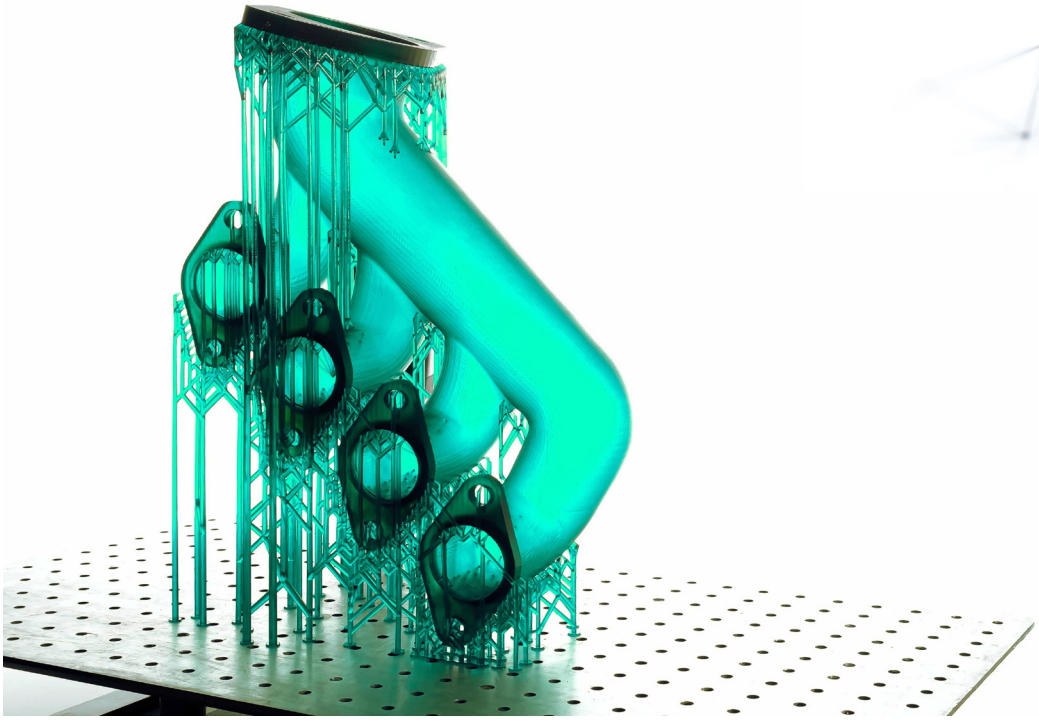
Technical Data

Photocentric

Daylight Magna Draft



Fluid Manifold

Properties

Tensile Modulus

Low — High

Print Speed

Slow — Fast

Compatible Printers

Liquid Crystal MAGNA

Colours

Turquoise

Available in 5kg bottles

Introduction

Photocentric's Draft resin is our fastest printing resin yet. Specifically designed to allow for detailed large parts to be printed in shorter times for rapid prototyping and production. This resin prints up to a 350µm layer height, with short curing times - reducing print times dramatically.

Best Used for:

- Ideal for prototyping
- Fast printing
- Translucency allows for easy inspection of hollowed parts

Unique Features:

- Printed parts exhibit very high strength
- Resilient with little compression
- Fast post curing

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www.photocentricgroup.com

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Processing Instructions

- To print with Photocentric Liquid Crystal Magna, choose ‘Draft’ and the desired layer thickness when preparing your print file in Photocentric Studio.
- Heat the resin to 30°C in the bottle.
- Shake the resin bottle for 2 minutes before pouring into the resin vat.

Post Processing

- Parts can be washed in 15 minutes using Photocentric Resin Cleaner or alternatively, in 10 minutes using Photocentric Resin Cleaner 30.
- Once washed, rinse with warm water for 2 minutes
- Dry with compressed air to remove any remaining water. Or alternatively, leave to air-dry.
- Place the platform into the Photocentric Cure L2 for 2 hours at 60°C or until parts are fully cured.
- Remove the platform from the Cure L2 and immediately submerge in cold water for thermal shocking. Parts can be removed from the platform with minimal effort.

Properties

Tensile Properties		
Tensile Modulus *	3200 MPa	ASTM D638
Ultimate Tensile Strength *	84 MPa	ASTM D638
Elongation at break *	4.4%	ASTM D638
Flexural Properties		
Flexural Modulus *	2840 MPa	ASTM D790
Flexural Strength *	109 MPa	ASTM D790
Impact Properties		
Impact Strength Notched Izod *	22.6 J/m	ASTM D256
General Properties		
Shore Hardness *	90 Shore D	ASTM D2240
Heat Deflection Temperature*	75°C	ASTM D648
Viscosity	970 cPs	At 25°C Brookfield spindle 3
Density	1.16 g/cm3	
Storage	10<T>50°C	
Biocompatibility		
Cytotoxicity*	Passed	ISO 10993-5

*** Mechanical properties stated based on fully cured material.**

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