



Technical Datasheet

Magna Concept

 Daylight Resin

Photo**centric**



Magna Concept

Accuracy (Low – High)



Tensile Modulus (Low – High)



Compatible Printers



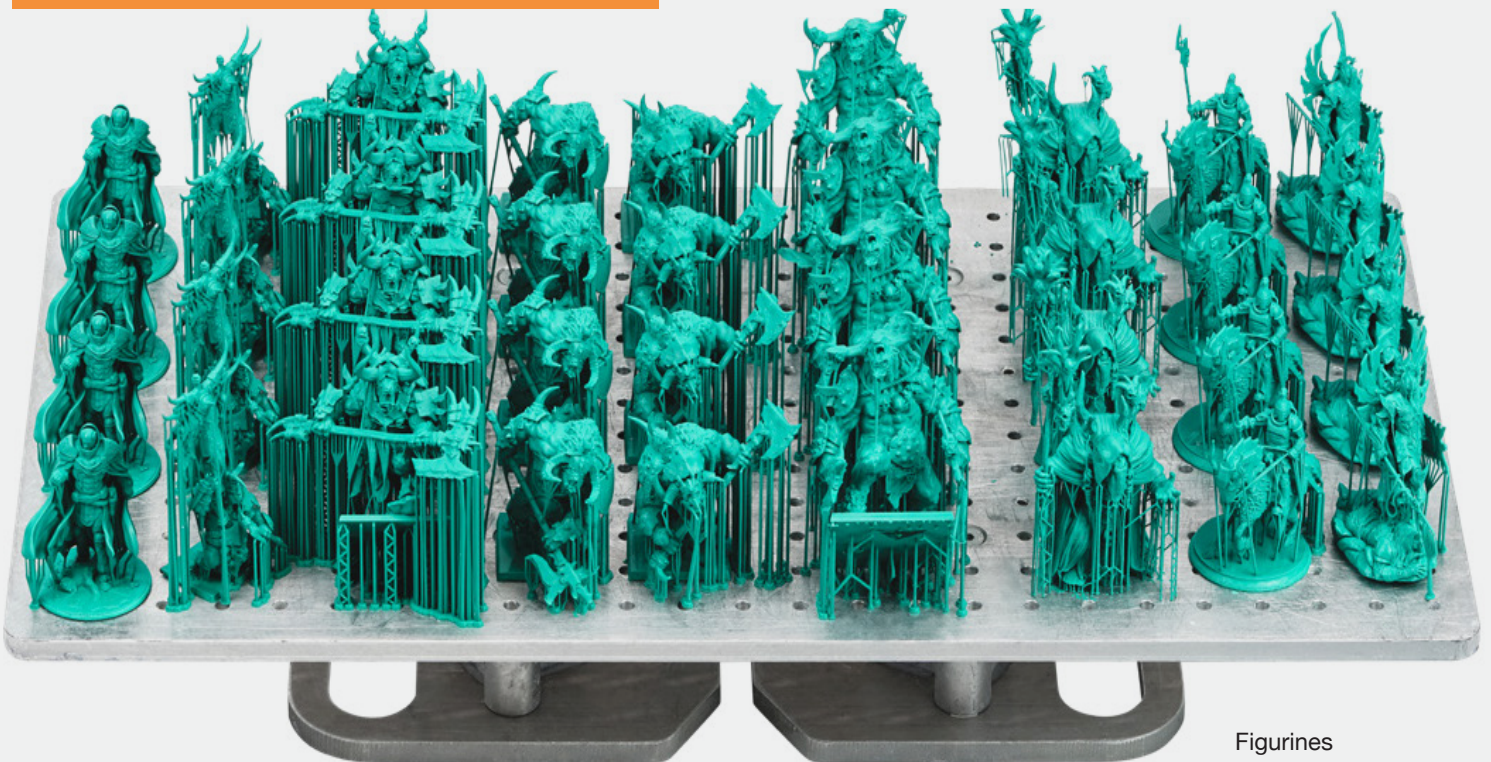
Liquid Crystal
MAGNA

Colour



Green

Available in
5kg bottle



Figurines

Photocentric's Daylight Magna Concept Green has been designed for producing rigid highly detailed prototyping parts. Printed parts display high tensile strength, durability, crisp definition, and high accuracy.

Optimised for:

Intricate models and figurines

Rigid and accurate prototypes

Unique features:



High tensile modulus



High definition



Smooth surface finish, allowing for a variety of primer paints to be applied



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Tensile Properties

Tensile Modulus *	2810 MPa	ASTM D638
Ultimate Tensile Strength *	61 MPa	ASTM D638
Elongation at break *	3.7%	ASTM D638

Flexural Properties

Flexural Modulus *	2060 MPa	ASTM D790
Flexural Strength *	87 MPa	ASTM D790

Impact Properties

Impact Strength Notched Izod *	19.5 J/m	ASTM D256
Impact Strength Notched Izod *	2.5 kJ/m ²	ISO 180

General Properties

Shore Hardness *	92 Shore D	ASTM D2240
Heat Deflection Temperature	85°C	ASTM D648
Viscosity	690 cPs	At 25°C Brookfield spindle 3
Density	1.1 g/cm ³	
Storage	10<T>50°C	

* Mechanical properties stated based on fully cured material.



We are constantly reviewing and improving our range of high-performance materials. For the very latest information, please visit the Photocentric website



Pre-Print Instructions

1. To print with Photocentric Liquid Crystal Magna, choose 'Concept Green' and the desired layer thickness when preparing your print file in Photocentric Studio.
2. It is recommended to print models which do not take longer than 12hrs to print at 100 µm layer thickness or build height no greater than 150mm at any desired layer thickness.
3. Heat the resin to 30°C in the bottle.
4. Shake the resin bottle for 2 minutes before pouring into the resin vat.



Post-Print Instructions

1. Parts can be washed in 15 minutes using Photocentric Resin Cleaner or alternatively, in 10 minutes using Photocentric Resin Cleaner 30.
2. Once washed, rinse with warm water for 2 minutes
3. Dry with compressed air to remove any remaining water. Or alternatively, leave to air-dry.
4. Place the platform into the Photocentric Cure L2 for a minimum of 2 hours at 60°C or until parts are fully cured - it can vary from 2-4 hours.
5. 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.
6. It is recommended to clean the resin vat after each print job as pigments may settle.

Photocentric

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