

Magna Draft

 460nm

Optimised for:

Ideal for prototyping

Fast printing

Translucency allows for easy inspection of hollowed parts



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

Compatible:
LC Magna, LC Titan

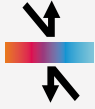
Colour
Green



Available:
5kg bottles



Key Features



Printed parts exhibit very high strength



Fast post curing



Resilient with little compression



Magna Draft 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

Biocompatibility*

Cytotoxicity	Passed	ISO 10993-5
--------------	--------	-------------

* Mechanical properties stated based on fully cured material.

Liquid Properties	Value	Method
Viscosity	970 cPs	At 25°C Brookfield spindle 3
Density	1.16 g/cm ³	
Storage	10<T>50°C	



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 'Magna Draft - Green' and the desired layer thickness when preparing your print file in Photocentric Studio.
2. Heat the resin to 30°C in the bottle.
3. Shake the resin bottle for 2 minutes before pouring into the resin vat.



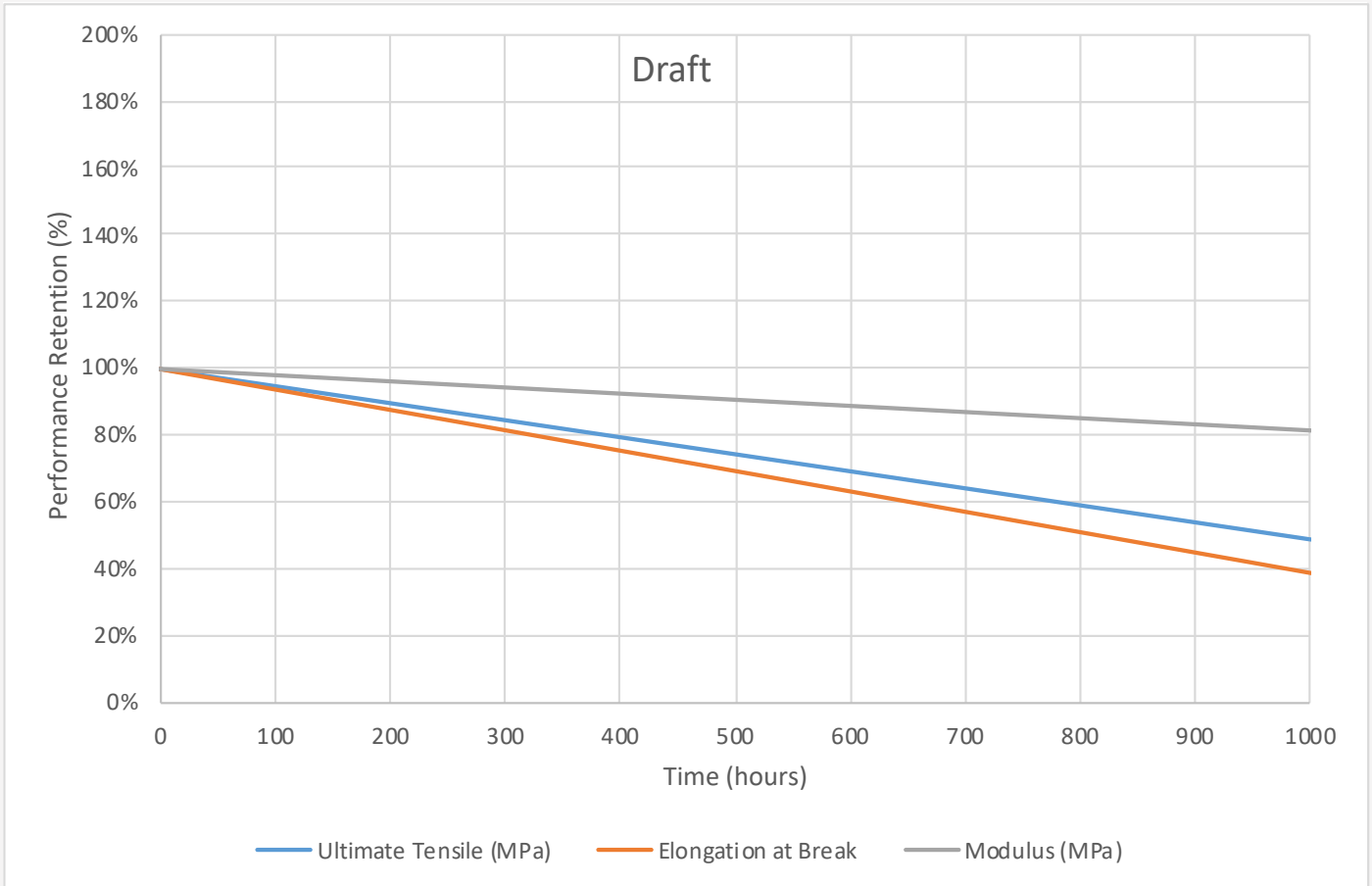
Post-Print Instructions

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 2 hours at 60°C or until parts are fully cured.
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.



Magna Draft Aging

Specific UV ageing testing was externally performed on Photocentric Magna Draft - Green Resin. Mechanical properties including Tensile Modulus, Tensile Strength at Break and Elongation at Break were evaluated after 1000 hours of exposure and compared against a zero-hour control.*



*All mechanical testing was carried out under ASTM D412 (Type C) for flexible/elastomeric materials, and ASTM D638 (Type IV) for rigid/durable materials.