



Technical Datasheet

Magna Draft



Daylight Resin

Photocentric



Magna Draft

Tensile Modulus (Low – High)



Print Speed (Slow – Fast)



Compatible Printers



Liquid Crystal
MAGNA

Colour



Green

Available in
5kg bottle



Fluid Manifold

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 works up to a 350µm layer height, with short curing times- reducing print times dramatically.

Optimised for

● Ideal for prototyping

● Fast printing

● Translucency allows for easy inspection of hollowed parts

Unique features



Heat resistant



Quick and fast
prototyping
350 µm layer



Printed parts
exhibit very
high strength



Smooth
surface finish
and ability to
print fine detail



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* (@ 0.45 MPa)	230 °C	ASTM D648
Heat Deflection Temperature* (@ 1.82 MPa)	91 °C	ASTM D648
Viscosity	970 cPs	At 25°C Brookfield spindle 3
Density	1.16 g/cm ³	
Storage	10<T< 50°C	

Biocompatibility

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

* 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 'Draft' 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

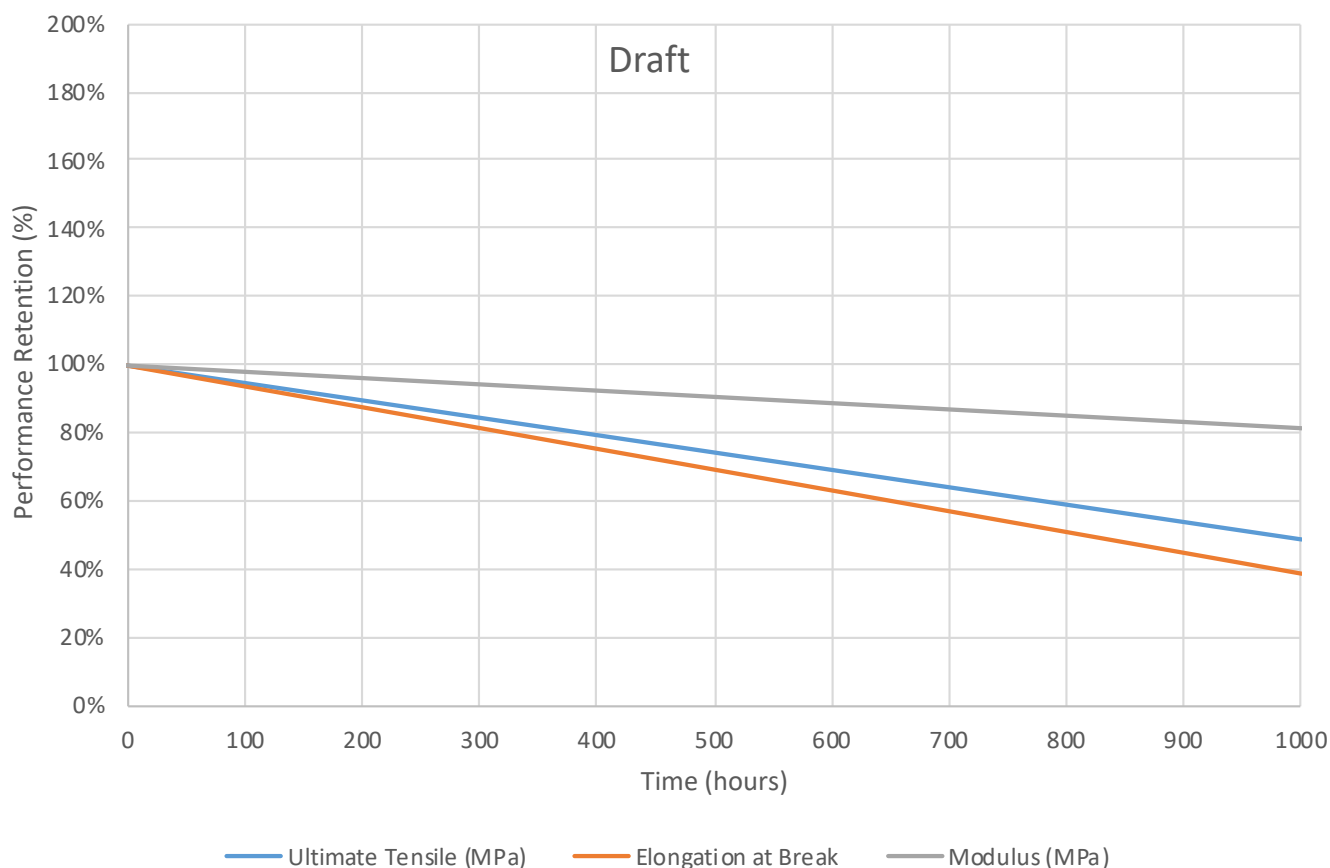
1. Parts can be washed in 10 minutes using Photocentric Resin Cleaner 30.
2. Once washed, rinse with warm water for 2 minutes
3. Dry with compressed air to remove any remaining water. Or alternatively, leave to air-dry.
4. Place the platform into the Photocentric Cure L2 for 2 hours at 60°C or until 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 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.