

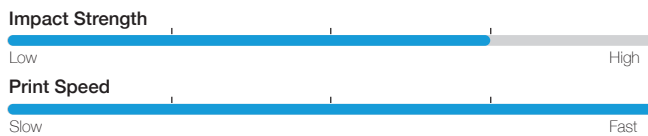


Daylight Magna Draft



Fluid Manifold

Properties



Compatible Printers



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 works 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

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

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|--------------------------------|----------|-----------|
| Impact Strength Notched Izod * | 22.6 J/m | ASTM D256 |
|--------------------------------|----------|-----------|

General Properties

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|------------------------------|------------------------|------------------------------|
| 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/cm ³ | |
| Storage | 10<T>50°C | |

Biocompatibility

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

* Mechanical properties stated based on fully cured material.