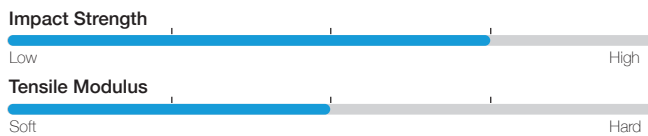




Daylight Magna Durable



## Properties



## Compatible Printers



## Colours

● Black

Available in 5kg bottles

## Introduction

Photocentric's Daylight Magna Durable formulation is ideal for 3D-printing functional parts that are durable and long-lasting, with high impact strength that can also bend without breaking. Printed parts are able to flex under strain and return to their original form.

## Best Used for:

- Jigs and fixtures
- Cover plates and enclosures
- Suitable for end-use parts

## Unique Features:

- Tough, durable and long-lasting
- High definition
- Smooth surface finish

## Processing Instructions

- To print with Photocentric Liquid Crystal Magna, choose 'Durable' 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 a minimum of 4 hours at 60°C or until parts are fully cured. It can vary from 4-8 hours depending on dimensions of the parts.
- Remove the platform from the Cure L2 and allow it cool to room temperature. Remove the printed parts with the supplied scraper or the soft spatula.

## Properties

### Tensile Properties

Tensile Modulus *	1570 MPa	ASTM D638
Ultimate Tensile Strength *	42 MPa	ASTM D638
Elongation at break *	30%	ASTM D638

### Flexural Properties

Flexural Modulus *	1460 MPa	ASTM D790
Flexural Strength *	52 MPa	ASTM D790

### Impact Properties

Impact Strength Notched Izod *	91 J/m	ASTM D256
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### General Properties

Shore Hardness *	60 Shore D	ASTM D2240
Heat Deflection Temperature	45°C	ASTM D648
Water Absorption (Short Term)	1%	ASTM D570
Viscosity	1200 cPs	At 25°C Brookfield spindle 3
Density	1.09 g/cm <sup>3</sup>	
Storage	10<T>50°C	

### Biocompatibility

Cytotoxicity*	Passed	ISO 10993-5
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\* Mechanical properties stated based on fully cured material.