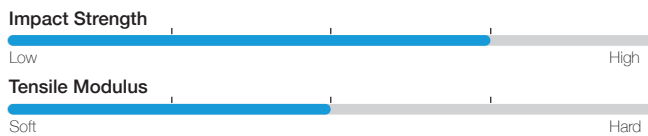




Durable DL110H



## Properties



## Compatible Printers



Liquid Crystal  
MAGNA

## Colours



Available in 5kg bottles

## Introduction

Photocentric Durable range is the most popular material among Photocentric functional materials, which can handle impact, compression, bending and stress fatigue without breaking or deforming.

## Best Used for:

- Jigs and fixtures requiring minimal deflection at elevated temperature like drill holder, air intake
- Cover-plates and enclosures like automotive and motorsport interior
- Fastenings, tools & couplings
- Strong and stiff prototype

## USPs

- Heat Deflection Temperature 80 °C
- High impact strength
- Tough, Durable, and long lasting
- Simulating the strength and stiffness of ABS
- High definition and can hold fine details
- Smooth surface finish

## Processing Instructions

- To print with Photocentric Liquid Crystal Magna, choose DurableDL110HB or Durable DL110HW at desired thickness in Photocentric Studio.
- Shake the resin bottle prior to use.

## Post Processing

- Wash in the Photocentric Resin Cleaner for maximum 15 minutes. Or in Photocentric Resin Cleaner 30 for maximum 10 minutes.
- Rinse with warm water for 2 minutes
- Dry with air compressor to remove any remaining water. Or leave to air dry.
- Keep parts on the platform, and place into Photocentric Cure L2 minimum of 2 hours at 60°C for Durable DL110 HW and minimum of 4 hours at 60°C for Durable DL110 HB.
- To remove parts from platform by thermal shock, place the platform after instantly removing from Cure L2 to deep cold-water container. Parts with minimum effort now can be removed off the platform.

## Properties

### Tensile Properties

Tensile Modulus *	2100 MPa	ASTM D638
Ultimate Tensile Strength *	60 MPa	ASTM D638
Elongation at break *	14%	ASTM D638

### Flexural Properties

Flexural Strength *	81 MPa	ASTM D790
Flexural Modulus *	2080 MPa	ASTM D790

### Impact Properties

Impact Strength Notched Izod *	9.3 kJ/m <sup>2</sup>	ISO 180
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### General Properties

Hardness *	85 Shore D	ASTM D2240
Heat Deflection Temperature	80 °C	
Viscosity	480 cPs	At 25°C Brookfield spindle 3
Density	1.14 g/cm <sup>3</sup>	
Storage	10<T>50°C	

\* Post cured for 2hrs at 60°C in Cure L2