



Daylight Precision Durable

SPECS



FEATURES

Photocentric's new tough and durable photopolymer formulation is ideal for making strong but slightly flexible objects. DL Precision Durable is ideal for 3d printing durable, strong objects that can be bent without breaking. Thick objects are stiff but can be made to bend and flex under strain and will return to their original shape. DL Precision Durable can be used for the fabrication of functional parts requiring a higher impact strength and durability.

DL Precision Durable provides excellent imaging in your Liquid Crystal machines. You will experience the benefits of fast exposure times and a wide exposure latitude, allowing you to hold the finest details your machine can provide. The solid material is tough, durable and long lasting provided it is stored in dry conditions away from strong UV light.

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. Resin should be poured into the tray away from direct sunlight. Resin can also be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times to avoid unwanted curing or contamination. Liquid polymer is soluble in water and soap, however we recommend the use of Photocentric Resin Cleaner for cleaning 3d printed parts. After cleaning, objects should be post cured under UV in water to remove any surface tack, followed by UV light at 60 °C for 1 hour.

DATA

Viscosity (At 25°C Brookfield spindle 3)	1200 cPs
Hardness ASTM D2240 (After post exposure for 60 minutes at 60°C)	60 Shore D
Tensile strength ASTM D638 (After post exposure for 60 minutes at 60°C)	42 MPa
Elongation at break ASTM D638 (After post exposure)	14%
Young's modulus ASTM D638 (After post exposure for 60 minutes at 60°C)	1570 MPa
Impact strength notched Izod ASTM D256 (After post exposure)	14 kJ/m2
Flexural strength ASTM D792 (After post exposure)	28 MPa
Flexural modulus ASTM D792 (After post exposure)	760 MPa
Water absorption (24 h at 60°C)	0.9 wt%
Heat deflection temperature	75°C
Storage	10<t>50°C
Density	1.09 g/cm3

AVAILABLE COLOURS

Black.

Available in 1kg bottles.