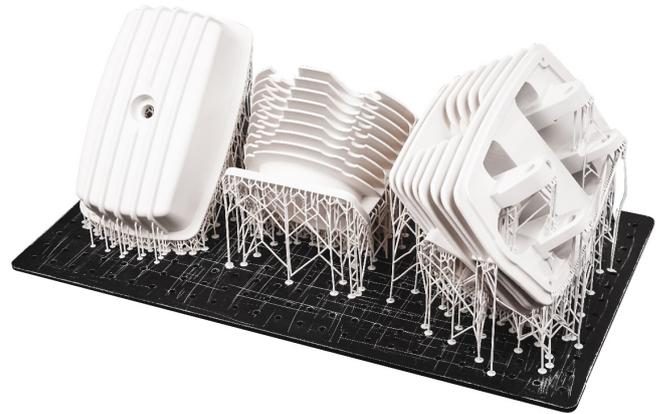




Daylight Magna High Tensile



SPECS

FEATURES

Photocentric's range of High Tensile daylight photopolymers have been created for producing hard objects with a high tensile strength. Objects cannot be bent or compressed easily. The printed parts will exhibit exceptional tensile strength and elongation comparable to that of acrylic and polyimide. The rigid parts produced show minimal shrinkage possible along with great accuracy. Daylight High Tensile provides excellent imaging in your desktop Liquid Crystal printer. 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 strong, 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's user manual. Polymer should be poured into the vat away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep the Magna door closed to prevent accidentally curing resin. Liquid polymer is soluble in water and soap however we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 70°C under UV for a minimum of 1 hour to obtain the maximum properties. Alternatively, the parts can be post exposed in clean warm water under UV for 1 hour.

IDEAL APPLICATIONS

- Engineering parts
- Consumer Goods
- Thermoforming models

DATA

Viscosity (At 25°C Brookfield spindle 3)	980 cPs
Hardness ASTM D2240 (After post exposure)	92 Shore D
Tensile strength ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	81 MPa
Impact strength notched Izod ASTM D256 (After post exposure)	3.2 kJ/m ²
Flexural strength ASTM D792 (After post exposure)	95 MPa
Young's modulus ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	3060 MPa
Flexural modulus ASTM D792 (After post exposure)	2200 MPa
Elongation at break ASTM D638 (Postcured 120 mins UV and heat 60°C water)	4.8%
Heat deflection temperature	95°C
Storage	10<t>50°C
Density	1.16 g/cm ³

AVAILABLE COLOURS

Translucent, White.

Available in 5kg bottles.