## Technical Data





### 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 user manual. Polymer should be poured into the tray away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times. Liquid polymer is soluble in water and soap. Object should be post cured under UV in water to remove any surface tack, followed by UV light at 80 °C for minimum of 1 hour to obtain the maximum tensile properties.

#### **IDEAL APPLICATIONS**

- Engineering parts
- Consumer Goods
- Thermoforming models

#### **DATA**

Viscosity 980cPs

(At 25°C Brookfield spindle 3)

**Hardness** 92 Shore D

ASTM D2240 (After post exposure)

Tensile strength 81 MPa

ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)

Elongation at break 4.8%

ASTM D638 (Postcured 120 mins UV and heat 60°C water)

 Storage
 10<t>50°C

 Density
 1.09 g/cm³

#### **AVAILABLE COLOURS**

#### White

Available in 5kg bottles.

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