



Daylight Pro 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. The printed parts will have fit together perfectly, allowing for large functional objects to be created. 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.

Applications: Engineering parts, Consumer Goods, Thermoforming models

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. For best post-processing results, clean using a Photocentric Wash 99L with Photocentric Resin Cleaner for maximum 15 minutes. Rinse thoroughly with warm to hot water. Place in Cure L for 10 minutes in water, followed by UV light only (60-80°C) for minimum of 1 hour. For large parts rotate platform in Cure L after 30 minutes for even exposure.

DATA

Viscosity (At 25°C Brookfield spindle 3)	980 cPs
Hardness (After post exposure)	92 Shore D
Tensile strength ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	81 MPa
Young's modulus ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	2200-2500 MPa
Elongation at break ASTM D638 (Postcured 120 mins UV and heat 60°C water)	4.8%
Storage	10<t>50°C

AVAILABLE COLOURS

White

Available in 1kg bottles.