Technical Data

Photocentric

Daylight 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.

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 15L with Photocentric Resin Cleaner for maximum 15 minutes. Rinse thoroughly with warm to hot water. Place in Cure M or L2 for 20-40 minutes in warm water at 60-80°C. If still tacky, place in water and UV for another 20 minutes.

DATA

Viscosity (At 25ºC 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
Youngs modulus ASTM D638 (After post exposure, 1h UV)	3060 MPa
Flexural modulus ASTM D792 (After post exposure)	2330 MPa
Elongation at break ASTM D638 (Postcured 120 mins UV and heat 60°C water)	4.8%
Storage	10<t>50°C
Density	1.09 g/cm3

AVAILABLE COLOURS

White

Available in 5kg bottles.

UK Photocentric Ltd. Cambridge House, Oxney Rd, Peterborough, PE1 5YW email: *info@photocentric.co.uk*
USA Photocentric Inc. 2205 West Parkside Lane, Phoenix, 85027, AZ email: *info@photocentricusa.com*
www.photocentricgroup.com