



Daylight Precision Firm

SPECS

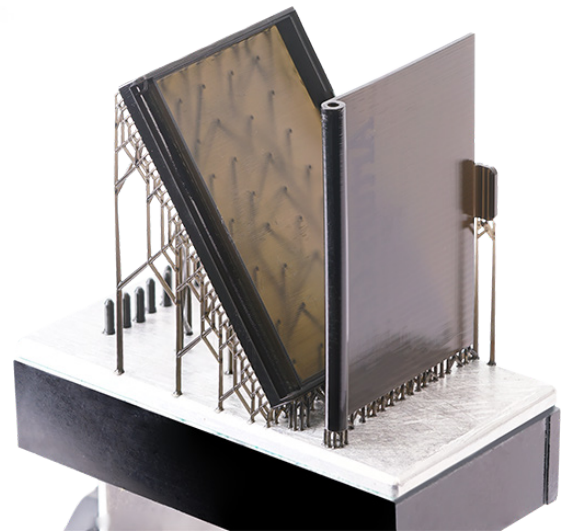
FEATURES

Photocentric's range of daylight precision firm polymers are ideal for making objects where you want a very hard object with slight compressive ability under high force and minimal shrinkage. Objects will bend a little and stretch slightly when under duress. They exhibit high tensile shear properties and limited elongation, objects can only be bent and compressed with force. Daylight Precision Firm provides excellent imaging in Precision machines. You will experience the benefits of fast exposure times and a wide exposure latitude, allowing you to hold the finest details your precision printer can provide. The solid material is tough, durable and long lasting provided it is stored in dry conditions away from sunlight.

Key benefits include tough and durable, highly accurate parts with a good finish and easy to use and finish. Ideal applications are jewellery and models.

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal's 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. However, we recommend cleaning 3d printed objects with Photocentric Resin Cleaner. After cleaning the 3d printed objects, the surface tack can be removed by leaving the objects in water under UV light for 10 minutes.



DATA

Viscosity (At 25°C Brookfield spindle 3)	560 cPs
Hardness (After post exposure)	65 Shore D
Tensile strength ASTM D638 (After post exposure)	30 MPa
Tensile modulus ASTM D638 (After post exposure)	920 MPa
Elongation at break ASTM D638	10%
Impact strength notched Izod ASTM D256 (After post exposure)	5.6 kJ/m ²
Flexural strength ASTM D792 (After post exposure)	18.6 MPa
Flexural modulus ASTM D792 (After post exposure)	438 MPa
Water absorption (24 h)	0.3 wt%
Storage	10<t>50°C
Density	1.18 g/cm ³

AVAILABLE COLOURS

Black

Available in 1kg bottles.