

Technical Data



BR3D-DL-FIRM Daylight
Firm 3D polymers



SPECS

FEATURES

Photocentric's range of firm daylight 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 Firm provides excellent imaging in Liquid Crystal machines. 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 tough, durable and long lasting provided it is stored in dry conditions away from UV light.

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. After making cleaned objects surface tack can be removed by leaving under water in sunlight 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)	26 MPa
Tensile strength ASTM D638 (Before post exposure)	10 MPa
Tensile modulus ASTM D638 (After post exposure)	1060 MPa
Elongation at break ASTM D638	14.9%
Heat deflection temp ASTM D648	52°C
Storage	10<t>50°C
Density	1.18 g/cm ³

AVAILABLE COLOURS

Amber, Cream, Red, Green, Grey, Black

Available in 1kg bottles with non-drip cap.