



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

<b>Viscosity</b> (At 25°C Brookfield spindle 3)	560 cPs
<b>Hardness</b> (After post exposure)	65 Shore D
<b>Tensile strength</b> ASTM D638 (After post exposure)	26 MPa
<b>Tensile strength</b> ASTM D638 (Before post exposure)	10 MPa
<b>Tensile modulus</b> ASTM D638 (After post exposure)	700 MPa
<b>Elongation at break</b> ASTM D638	10%
<b>Heat deflection temp</b> ASTM D648	N/A
<b>Storage</b>	10<t>50°C
<b>Density</b>	1.18 g/cm <sup>3</sup>

### AVAILABLE COLOURS

**Cream, Red, Grey**

*\*Other colours available on request*

Available in 1kg bottles with non-drip cap.