

# Technical Data



BR3D5KG-PF-PRO  
Daylight **Pro Firm**  
**Firm** 3D polymers



## SPECS

### FEATURES

Photocentric's range of Pro Firm daylight photopolymers are ideal for making large scale objects where some flexibility is required. Objects can be bent or compressed with some force without breaking. They exhibit moderate tensile shear properties and moderate elongation. Daylight Pro Firm provides excellent imaging in your desktop Liquid Crystal printer though is specially formulate for the use in the Liquid Crystal Pro. 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 firm, durable, and long lasting provided it is stored in dry conditions away from strong UV light.

### PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal 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 UV for 10 minutes or longer.

### DATA

<b>Viscosity</b> (At 25°C Brookfield spindle 3)	460 cPs
<b>Hardness</b> (After post exposure)	60 Shore D
<b>Tensile strength</b> ASTM D638 (After post exposure)	20 MPa
<b>Tensile strength</b> ASTM D638 (Before post exposure)	9 MPa
<b>Elongation at break</b> ASTM D638	20%
<b>Heat deflection temp</b> ASTM D648	N/A
<b>Storage</b>	10<math>\lt;math>^{\circ}</math>C to 50<math>^{\circ}</math>C
<b>Density</b>	1.17 g/cm <sup>3</sup>

### AVAILABLE COLOURS

Cream, Grey

Available in 5kg bottles.