

# Technical Data



BR3D-DL-FIRM-LSR  
UV Laser **FIRM**  
**Firm** 3D polymers



## SPECS

### FEATURES

Photocentric's range of firm Laser UV photopolymers are ideal for making objects where you want a little flexibility, but still a hard object. Thin objects will compress and deflect enough to bend and return. They exhibit moderate to high tensile shear properties and limited elongation, objects can be bent slightly with extreme force. Laser UV Firm provides excellent imaging in your desktop laser 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 tough, 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 Laser printer 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 20 minutes or longer. If any surface tack persists you can remove it by wiping the parts with IPA.

### 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>Elongation at break</b> ASTM D638	14.9%
<b>Heat deflection temp</b> ASTM D648	52°C
<b>Volumetric Shrinkage</b>	5.9%
<b>Storage</b>	10<t>50°C
<b>Density</b>	1.18 g/cm <sup>3</sup>

### AVAILABLE COLOURS

Black, Clear, Grey

Available in 1kg bottles with non-drip cap.