

Technical Data



BR3D-DL-FLEX Daylight
Flexible 3D polymers



SPECS

FEATURES

Photocentric's range of flexible daylight polymers 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 very low tensile shear properties and high elongation, objects can be bent and compressed with some force. Daylight Flexible provides excellent imaging in Liquid Crystal printers. 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 correctly

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 <small>(At 25°C Brookfield spindle 3)</small>	200 cPs
Hardness <small>(After post exposure)</small>	85 Shore A
Tensile strength <small>ASTM D638 (After post exposure)</small>	4.9 MPa
Tensile strength <small>ASTM D638 (Before post exposure)</small>	1.5 MPa
Tensile modulus <small>ASTM D638 (After post exposure)</small>	-
Elongation at break <small>ASTM D638</small>	75%
Heat deflection temp <small>ASTM D648</small>	-
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.