

Technical Data



BR3D-UV-Firm-DLP
UV DLP **Firm**
Firm 3D polymers



SPECS

FEATURES

Photocentric's range of firm DLP 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. DLP 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 DLP 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

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)	700 MPa
Elongation at break ASTM D638	10%
Heat deflection temp	52°C
Storage	10<t>50°C
Density	1.18 g/cm ³

AVAILABLE COLOURS

Clear, Grey, Red, White
Other colours available on request

Available in 1kg bottles with non-drip cap.