

Technical Data



BR3DGY01-UV-TOUGH
UV DLP **Tough**
Tough 3D polymers

SPECS

FEATURES

Photocentric's range of Tough UV photopolymers are ideal for making objects where you want flexibility and strength. Thick objects are stiff but can be made to bend and flex under strain and will return to their original shape. They exhibit moderate to high tensile shear properties and moderate to high elongation, objects can be bent with medium-high force. UV Tough provides excellent imaging in your desktop DLP 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. Resin should be poured into the tray away from direct sunlight. Resin can also be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times to avoid unwanted curing or contamination. Liquid polymer is soluble in water and soap. After making clean, 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 <small>(At 25°C Brookfield spindle 3)</small>	470 cPs
Hardness <small>(After post exposure)</small>	60 Shore D
Tensile strength <small>ASTM D638 (After post exposure)</small>	35 MPa
Tensile strength <small>ASTM D638 (Before post exposure)</small>	10 MPa
Elongation at break <small>ASTM D638</small>	50%
Heat deflection temp <small>ASTM D648</small>	N/A
Storage	10<t>50°C
Density	1.14 g/cm ³

AVAILABLE COLOURS

Grey

Available in 1kg bottles with non-drip cap.