



BR3DGY01-DL-Tough Daylight Tough Tough 3D Polymer



SPECS

FEATURES

Photocentric's range of Tough daylight 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. Daylight Tough provides excellent imaging in your Liquid Crystal machines. 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 Liquid Crystal 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, object should be post cured under UV in water to remove any surface tack, followed by UV light at 60 °C for 1 hour and overnight storage in a 60 °C oven to obtain the maximum tensile properties.

DATA

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|---|------------------------|
| Viscosity (At 25°C Brookfield spindle 3) | 600 cPs |
| Hardness (After post exposure) | 80 Shore D |
| Tensile strength (ASTM D638 After Post Exposure) | 35 MPa |
| Tensile strength (ASTM D638 Before Post Exposure) | 10 MPa |
| Elongation at break (ASTM D638 After Post Exposure) | 50% |
| Storage | 10<t>50°C |
| Density | 1.10 g/cm ³ |

AVAILABLE COLOURS

Amber

Available in 1kg bottles with non-drip cap.