

Technical Data

Photocentric **3D**
Resins



BR3DAM05-DL-Tough
Daylight PRO Tough
Tough 3D Polymers



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. Pro Tough offers you the opportunity to 3D print large, functional parts on your LC Pro.

They exhibit moderate to high tensile shear properties and moderate to high elongation, objects can be bent with a medium-high force. Daylight Pro Tough provides excellent imaging in your LC Pro machine. 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, objects' surface tack can be removed by leaving under water in UV for 10 minutes or longer. In addition to regular post-exposure, we also recommend storing objects in a 60°C oven overnight for optimal mechanical properties.

DATA

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 5 kg bottles.

Photo**centric**

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