



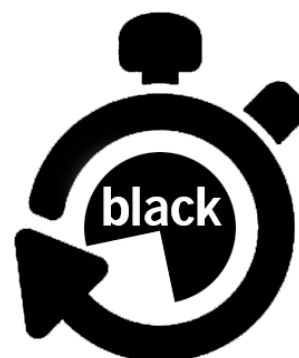
MONOCURE 3DR3587BK 3D RAPID UV RESIN - BLACK

END USE

Monocure 3D RAPID black photo-reactive resin has been designed to use in low powered LED type DLP 3D Printers for UV wavelengths from 225nm to 420nm. The near solid black appearance allows you to 3D print models or parts with a detailed smooth finish that will be black when cured.

PHYSICAL PROPERTIES

Colour	Black (5% Transparency)
Viscosity	500 - 600cps @ 25°C (Brookfield RVT)
Odour	Negligible Characteristics
Shelf Life	12 months
Active Solids	100%
UV Cure	225nm to 420nm
Cure Speed	Very fast with UV LED LAMPS
Storage	Dark Cool, dry place out of direct sunlight.
Wash Up	IPA (Isopropyl Alcohol)



APPLICATION

Stereolithography (SLA) is an additive manufacturing process that employs a vat of liquid ultraviolet curable photopolymer resin and an ultraviolet laser to build parts' layers one at a time. For each layer, the laser beam traces a cross-section of the part pattern on the surface of the liquid resin. Exposure to the ultraviolet laser light cures and solidifies the pattern traced on the resin and joins it to the layer below.

Digital Light Projection (DLP) is similar to SLA however it uses a digital light projector to harden the resin instead of a laser. The main advantages are that it can harden a whole layer in a lot less of the time it takes to a laser to trace around and fill in each item on the print bed.

PACKAGING

Monocure 3DR3587BK is packed in 500ml, 1ltr & 5ltr black plastic containers with a screw-top cap.