Product Data Sheet

MONOCURE
Advanced 3D Printer Resins

MONOCURE 3DR3582C
3D RAPID UV RESIN - CLEAR

END USE

Monocure 3D RAPID photo-reactive clear resin has been designed to use in low powered LED type DLP 3D Printers for UV wavelengths up to 420nm. The transparent appearance allows you to see internal features that would be useful for research, prototyping and engineering parts.

PHYSICAL PROPERTIES

Colour	Clear appearance
Viscosity	500 - 600cps @ 25°C (Brookfield RVT)
Odour	Negligible Characteristics
Shelf Life	12 months
Active Solids	100%
UV Cure	225nm to 420nm
Cure Speed	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 is 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 3DR3582C is packed in 500ml, 1ltr & 5ltr black plastic containers with a screw top cap.

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