



UV Laser Castable



SPECS

FEATURES

Photocentric's range of Castable Laser UV photopolymers are ideal for making objects. This is a SLA resin designed for creating high definition castable objects. It is formulated to burn evenly at regularly increasing temperature stages to reduce gas pressure in the cast and provide almost no ash content. It will give minimal expansion on heating. 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 UV light.

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Laser printer's user manual. Polymer should be poured into the tray away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times. Liquid polymer is soluble in water and soap. After cleaning, objects surface tack can be removed by leaving under water in UV for 20 minutes. Any residual surface tack can be removed by wiping with IPA. Object should be completely dry before casting.

DATA

Viscosity (At 25°C Brookfield spindle 3)	230 cPs
Hardness (After post exposure)	75 Shore D
Tensile strength ASTM D638 (After post exposure)	10 MPa
Tensile strength ASTM D638 (Before post exposure)	6 MPa
Young's modulus ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	2060 MPa
Flexural modulus ASTM D792 (After post exposure)	812 MPa
Elongation at break ASTM D638	3.4%
Ash content (Range 0-0.01%)	<0.01%
Storage	10<t>50°C
Density	1.19 g/cm ³

AVAILABLE COLOURS

Pink

Other colours available on request

Available in 1kg bottles with non-drip cap.