Technical Data

BR3D-DL-CASTABLE
Daylight **Castable**
3D polymers

SPECS

FEATURES

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 Liquid Crystal´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 other times. Once made clean object thoroughly with warm water and liquid soap. Leave objects in bright sunlight for at least an hour. To remove surface tack leave objects under water in light for 30 minutes. It is important that objects have no surface tack before using in investment casting.

DATA

Viscosity (At 25ºC Brookfield spindle 3)	230 cPs
Hardness (After post exposure)	75 Shore D
Tensile strength ASTM D638 (After post exposure)	42 MPa
Tensile strength ASTM D638 (Before post exposure)	15 MPa
Tensile modulus ASTM D638 (After post exposure)	2060 MPa
Elongation at break ASTM D638	8.7%
Heat deflection temp ASTM D648	-
Storage	10<t>50°C
Density	1.19 g/cm^3

Residual content after burning

Al, B, Ca, Nb, Cd, Ce, Co, Cr, Cu, Ga, Hf, K, Mg, Mn, Mo, Na, Mi, P, Pt, S, Si, V, Zr, Re, Ta, W, Ba, Y <0.01%

Pb, Bi, Ag, Sb,Zn, Sn, Fe <10 ppm

Titanium <0.18%

Ash content <0.18%

AVAILABLE COLOURS

Amber only

Available in1kg with non-drip cap

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