



Daylight Precision Skin Safe



SPECS

FEATURES

Photocentric's range of Skin Safe Daylight Photopolymers are ideal for schools and children. This range of label-free photopolymers has been developed especially for the educational sector, allowing for the safe use by children – they don't cause any allergic reactions or skin irritations.

Objects printed with our range of Skin Safe Daylight Photopolymers display a smooth and tack-free surface finish. These objects exhibit moderate shear properties and moderate elongations, objects are soft and can be bent with low force. Daylight Skin Safe provides excellent imaging in your Liquid Crystal machines. 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 soft, but long lasting provided it is stored in dry conditions and 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. For optimal printing results, print parts on supports and remove supports after post-curing. For optimal surface finish, use Photocentric Resin Cleaner for cleaning the 3D printed parts and wipe the parts dry using a tissue or cotton cloth. Post-cure parts under UV for 60 minutes. Do not post-cure parts in water. For better results, we recommend post curing parts for 60 minutes at 60 degrees.

DATA

Viscosity <small>(At 25°C Brookfield spindle 3)</small>	100 cPs
Hardness <small>(After post exposure)</small>	100 Shore A
Tensile strength <small>(ASTM D638 After Post Exposure)</small>	3 MPa
Elongation at break <small>(ASTM D638 After Post Exposure)</small>	6%
Young's modulus <small>(ASTM D638 After Post Exposure)</small>	96 MPa
Impact strength <small>notched Izod ASTM D256 (After post exposure)</small>	2.7 kJ/m ²
Flexural strength <small>ASTM D792 (After post exposure)</small>	3.4 MPa
Flexural modulus <small>ASTM D792 (After post exposure)</small>	62.4 MPa
Water absorption (24 h)	2wt%
Heat deflection temp	N/A
Storage	10<t>50°C
Density	1.20 g/cm ³

AVAILABLE COLOURS

Red transparent

Available in 1kg bottles with non-drip cap.

NOTE:

Skin safe is non-irritant and non-skin sensitising. If you are already sensitised to acrylates, you may still get irritation from Skin Safe resin.