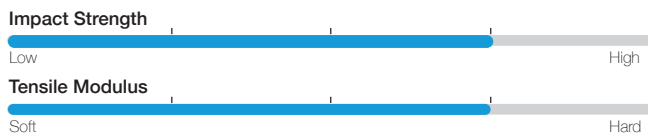




UV LCD Tough for Prusa Research



Properties



Compatible Printers

UV LCD & DLP 3D Printers

Colours

- Orange
- Deep blue transparent

Available in 1kg bottles

Introduction

This resin was developed by Photocentric using the Original Prusa SL1 for testing. Due to this fact, the SL1 was the main printer throughout the development process. It prints the resin fast while providing high print quality. The resins made for Prusa Research by Photocentric are among the best 405nm tough resins for 3D printing out there.

Best Used for:

- Functional or decorative parts
- Tabletop gaming models and accessories

Unique features

- Universal resin
- Vibrant colour
- Fast printing and high amount of details
- High definition
- Smooth surface finish

Resin Preparation prior to Print

- Shake the resin bottle for 2 minutes before pouring it into the resin vat.
- Stir resin in the vat with a vat cleaning tool for pigment drop out etc. before and between prints if the print is immediate and vat is not being emptied.

Post-Processing

The polymer should be poured into the vat away from direct sunlight. The polymer can be reused but should be poured through a filter to remove solid lumps. Keep the printer door closed to prevent accidentally curing resin.

Properties

Tensile Properties

Tensile Modulus *	2100 MPa	ASTM D638
Ultimate Tensile Strength *	55 MPa	ASTM D638
Elongation at break *	5%	ASTM D638

General Properties

Shore Hardness *	85 Shore D	ASTM D2240
Water Absorption after 24 h	< 0.2%	
Viscosity	150 cPs	At 25°C Brookfield spindle 3
Density	1.13 g/cm ³	
Storage	10<T>50°C	

* Mechanical properties stated based on fully cured material.