

PROTOFAB

Photoreactive Resin

Product Name :
SKU# :
Weight : 10KGS
Date of Manufacturing :
LOT# : 030719ZLAR
Sealed and Stored in Dry Place at Room Temperature

Warning



1. Resin can be harmful; care should be taken of all fires when handling.
2. Touching the resin can cause irritation of the skin.
3. Contact with eyes is likely to cause severe irritation.
4. Accidental ingestion is extremely serious. If resin comes into contact with hands, do not touch the mouth or face.
5. Liquid resin is extremely harmful to aquatic life, causing long-term damage.
6. Avoid breathing in any dust / smoke/particles/emissions originating from the resin.
7. Wash hands thoroughly after operation.
8. Contaminated clothing should not be worn outside the working area. Always store correctly and do not dump. Dumping will cause significant environmental damage.
9. Always wear protective glasses, goggles and facemask when operating.
10. If uncomfortable seek immediate medical assistance.
11. If resin comes into contact with skin wash thoroughly with soap, preferably in a shower.
12. If there are signs of irritation or a rash seek medical assistance.
13. If any resin enters the eyes wash with water for several minutes. After an initial period of washing, from wearing contact lenses, should carefully take them out and wash the eyes with the lenses removed.
14. Take them out and wash the eyes with the lenses removed.
15. If the eyes are still irritated after washing seek medical assistance.
16. Waste resin requires treatment from an approved waste treatment plant.



PROTOFAB
BEYOND DIMENSIONS

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Formula L1: ABS-Like

This material is an excellent substitute for ABS in 3D printing. Its opaque white color resembles ABS closely, and its physical attributes make it suitable for almost any application. Aside from being strong, it's also highly practical to work with as it only requires the very minimum of post-processing.

Advantages

- Highly accurate
- Good resistance to humidity
- Highly durable
- Good resistance to yellowing
- Suitable for a very wide range of applications

Applications

- Functional prototypes
- Concept models
- Low-volume production parts



Formula L1 TECHNICAL DATA SHEET

Liquid Properties			Optical Properties		
Appearance	White (Customizable)		Dp	0.12	[slope of cure-depth vs. ln(E) curve]
Viscosity	583 cps	@ 25.1°C	Density	1.120 g/cm ³	@ 25°C (77°F)

Mechanical Properties (90 Minutes UV Postcure)		
ASTM Method	Property Description	Value
ASTM D 638	Tensile Modulus	2956 MPa
ASTM D 638	Tensile Strength at Break	55.67 MPa
ASTM D 638	Elongation at Break	8.80%
ASTM D 648 @66PSI	Heat Deflection Temperature	50°C
ASTM D 790	Flexural Strength	67.89 Mpa
ASTM D 790	Flexural Modulus	2682 Mpa
ASTM D 256	Izod Impact (Notched)	42.66 J/m
ASTM D 2240	Hardness Shore D	82

* These values may vary and depend on individual machine processing and post-curing practices.