



Photoreactive Resin

Product Name :

SKU# :

Weight : 10KGS

Date of Manufacturing :

LOT# : 030716ZLAR

Sealed and Stored in Dry Place at Room Temperature

Warning



1. Resin can be harmful; care should be taken at all times 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/particulates arising 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 gloves, goggles and facemask when operating.
10. If discomfort occurs, immediately seek 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 evening contact lenses should carefully take them out and wash the eyes with the lenses removed.
14. If the eyes are still irritated after washing seek medical assistance.
15. If the eyes are still irritated after washing seek medical assistance.
16. Waste resin requires treatment from an approved waste treatment plant.



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Powered by Vistar (Xiamen) Industries CO., Ltd.
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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/cm³	@ 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.

ZHENGYU 6202 Safety Technical Instructions

I	Chemicals and Enterprise Identification	IX	Physicochemical properties
II	Risk overview	X	Stability and reactivity
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V	Fire protection measures	XIII	Disposal
VI	Emergency response to leakage	XIV	Transportation information
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VIII	Contact control/personal protection	XVI	Other information

I. Chemicals and Enterprise Identification

Name of Chemical	ZHENGYU 6202
Chemical uses	use for SLA Laser Curing Equipment 3D Photosensitive Resin for 3D Printing
Name of Production Enterprise	ZHENGYUKECHUANG(XIAMEN)NEW MATERIAL TECHNOLOGY CO.,LTD
Phon	0592-3862897
Tex	0592-3862835
Zip code	361026
E-mail	xmzykc@163.com
Address	No.899 Maqing Road,Haicang District ,Xiamen 361026

II. Risk overview

Physical state	Viscous liquid
Invasion pathway	Inhalation and touch
Health hazard	Possible sensitization
Environmental hazards	Substance may be harmful to the environment and special attention should be paid to water bodies .

III. Composition / component information

Hazardous Components	Concentration	Hazardous Components	Concentration range
Epoxy resin	10-70%	Silicone rubber compound	1-10 %
Acrylate	10-30%	Photoinitiator	1-10 %

IV. First aid treatment

Skin touch	Wipe off with absorbent paper or towel, wash skin with soapy water and clean water, do not makeWash with organic solvent. If dermatitis occurs, consult a doctor.
Eys touch	Rinse with clean water for at least 15 minutes and see a doctor .
Inhalation	Quickly leave the scene to the fresh air to keep the respiratory tract unobstructed. For exampl,if you loss of consciousness, you should stay in the side position immediately in order to keep breathing.If asphyxia occurs, artificial respiration should be carried out immediately. Seek medical advice.
Ingestion	Drink 500-800 mL of water, if possible with medical activated carbon suspension, vomiting, repeated drinking water. If unconsciousness or convulsions occur, it is not advisable to give food orally. Seek medical advice

V. Fire protection measures

Hazard characteristics	Combustion at High Temperature
Fire extinguishing media and methods	Water, dry powder extinguishers and foam extinguishers are prohibited from using high pressure water guns.

VI. Emergency response to leakage

Emergency Management	When a small amount of sprinkler is applied, dry it with a cloth or other cloth and place it in a suitable sealed garbage bin; use personal protective equipment recommended in Part 9; and do not drain the sewage into the drainage.In roads, soils or rivers and seas; ensure adequate water for fire fighting; dispose of sewage and soil in accordance with local regulations.
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VII. Operational Disposal and Storage

Points for Attention in Chemical Operation	For airtight operation, it is recommended that operators wear self-priming anti-virus mask, safety glasses, tight sleeve overalls and rubber gloves to avoid contact with
Storage considerations	Store in a cool, dry, ventilated environment .

VIII. Contact control/personal protection

Maximum permissible concentration	No data
Engineering control	It is airtight and provides sufficient local ventilation .
Respiratory system protection	Ear a self-priming filter mask when the vapor concentration in the air is high.
Eye protection	Wear Chemical Safety Eyes.
Body protection	Wear tight sleeve overalls.
Hand protection	Wear rubber gloves.
Other protection requirements	Provide safe showers and eye washes.

IX. Physicochemical properties

Appearance	White viscous liquid	Melting point	Not applicable
Water solubility	Insoluble (20℃)	Saturated vapor pressure	No relevant information
Octanol/water partition coefficient	not applicable	Explosion performance	Can not appear
Smell	Slight odor	Boiling point	No relevant information
Density	1.120 g/cm ³ (25℃)	Flash point	>95℃
Ignition temperatur	No relevant information	pH	3-6 (Equal proportion water)
Viscosity	583 mPa · s (25.1℃)	Main application	3D Printing for Photosensitive Resin

X. Stability and reactivity

Thermal stability	No data
Prohibited substance	Strong acid, alkali and oxidant
Conditions to avoid contact	Electrostatic discharge
Polymerization hazard	Will not appear
Decomposition products	Thermal decomposition or incineration may produce carbon oxides and other toxic gases or vapors.

**XI. Toxicological data**

Acute toxicity	No data
Subacute and chronic toxicity	No data
Thrill	Eye and skin irritation
Sensitization	No data
Mutagenicity	No data
Teratogenicity	No data
Carcinogenicity	No data

XII. Ecology data

Biodegradability	No data
Non-biodegradability	No data
Bioconcentration or bioaccumulation	No data
Other harmful effects	The substance may be harmful to the environment and special attention should be paid to water bodies.

XIII. disposal

Waste disposal methods	Before disposal, relevant national and local regulations should be consulted, and incineration or landfill should be recommended
Abandoned matters needing attention	No data

XIV. Transportation information

UN number	No data	United Nations Hazard Classification	No data
Packaging marks	No data	Packaging category	No special restrictions
Packaging method	No special restrictions	Transportation matters needing attention	No special restrictions

XV. Regulatory information

Regulatory information	Regulations on the Safety Management of Chemical Hazardous Goods (Decree of the State Council of the People's Republic of China No. Promulgated No. 591), Rules for the Implementation of Regulations on the Safety Management of Chemical Hazardous Goods (Chemical Labor Development [1992] 677), Regulations on the Safe Use of Chemicals in Workplaces (Ministry of Labor [1996] 423), and relevant provisions have been made for the safe use, production, storage, transportation, handling of chemical dangerous goods.
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XVI. Other information

Filling Department	Technology Research and Development Department	Date	January 15th 2022
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