

Transparent Clear Resin

INDUSTRIAL GRADE MATERIALS FOR SLA 3D PRINTING



MATERIAL NAME

Transparent Clear Resin

COLOR

Transparent

PROCESS

SLA

PRODUCT DESCRIPTION

SLA photosensitive resin with high transparency and low viscosity. The components are built at a cost of transparency, excellent strength and toughness, high precision and good dimensional stability. The resin builds components to last 6.5 months or more. Suitable for car, healthcare, consumer electronics and other industries invest in maternal models, conceptual models, and general parts, which require a lot of transparency.

TYPICAL APPLICATIONS

- Master molds
- Conceptual models
- General parts and applications in automotive, medical, and consumer electronics requiring high transparency

PRODUCT SAFETY

After fully cured, the product is harmless to general skin contact. Very few people may have skin allergies to the resin. It cannot be used for food or medical purposes. If there is uncured resin in the product, you need to use gloves when touching it and avoid contact with the eyes.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**

Store in a dry, cool, and dark environment, avoiding direct sunlight, high humidity, and extreme temperatures (ideal: 5°C–25°C).

Protect from prolonged UV exposure and seal properly to prevent environmental degradation.

- **TRANSPORTATION**

Ensure shockproof, pressure-resistant, and moisture-proof packaging to avoid cracking or deformation. Keep separated from strong acids, alkalis, and solvents during transportation.

- **USAGE**

Avoid exposure to strong UV light, high temperatures, or highly corrosive environments.

For outdoor applications, consider applying a UV-resistant coating to reduce aging or discoloration.

- **CHEMICAL COMPATIBILITY**

Preferred exposure: Weak acids, weak alkalis, and low-concentration alcohols (for short-term contact).

Avoid exposure: Strong acids, strong alkalis, oxidizing agents, and strong polar solvents (e.g., acetone, toluene).

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Hardness	ASTM D2240	Shore D 82
Flexural modulus (Mpa)	ASTM D790M	2100 MPa
Flexural strength (Mpa)	ASTM D790M	86 MPa
Tensile modulus (Mpa)	/	/
Tensile strength (Mpa)	ASTM D638M	48 MPa
Elongation at break	ASTM D638M	12%
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	ASTM D256A	28 J/m
Heat deflection temperature (°C)	/	/
Glass transition, Tg (°C)	/	/
Coefficient of thermal expansion(/°C)	/	/
Density (g/cm ³)	/	~1.12 g/cm ³ @25°C

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>



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