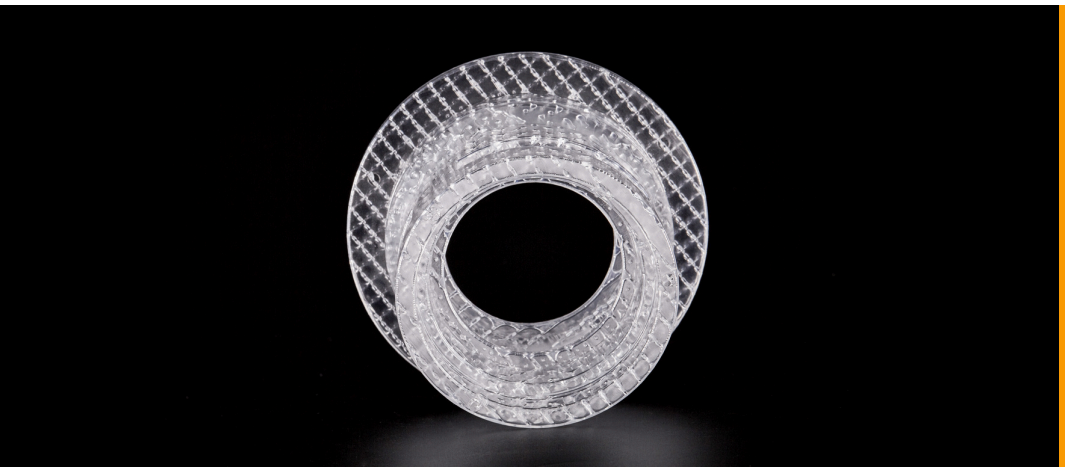
Casting Resin

INDUSTRIAL GRADE MATERIALS FOR SLA 3D PRINTING



MATERIAL NAME
Casting Resin

COLOR
Optically clear, near colorless

PROCESS
SLA

PRODUCT DESCRIPTION

As one of the industry's most popular materials, Casting Resin is the clear solution for numerous applications. Whether you're a designer looking for highly detailed parts with superior clarity and water resistance, or an engineer focusing on durability for functional testing, Casting Resin mimicks the look and feel of clear thermoplastics, such as ABS and PBT.

TYPICAL APPLICATIONS

- Consumer products
- Fluid flow analysis
- Duct work
- Investment casting
- Lenses

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	/	/
Flexural modulus (Mpa)	/	/
Flexural strength (Mpa)	/	/
Tensile modulus (Mpa)	ASTM D638M	2656 MPa
Tensile strength (Mpa)	/	/
Elongation at break	ASTM D638	6.4%
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	/	/
Heat deflection temperature (°C)	/	/
Glass transition,Tg (°C)	/	/
Coefficient of themal expension(/°C)	/	/
Density (g/cm³)	/	1.16 g/cm³ @25°C

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