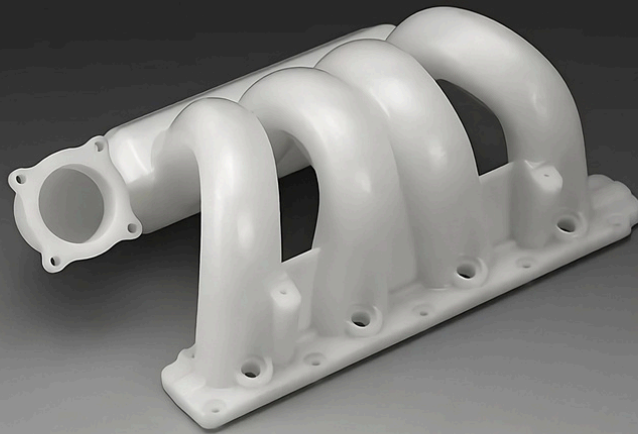


# Standard Resin(White)

INDUSTRIAL GRADE MATERIALS FOR SLA 3D PRINTING



## MATERIAL NAME

Standard Resin(White)

## COLOR

White

## PROCESS

SLA

## PRODUCT DESCRIPTION

Standard Resin(White) has excellent surface detail and white texture and is the most commonly used resin with good dimensional accuracy. It's suitable for pipes, buckles, electronic product casings, automobile casings, instrument panel components, etc. that require high toughness and high resistance warm place. Prints are ready to use right off the printer with a matte surface finish, opaque appearance, and precise details.

## TYPICAL APPLICATIONS

- High-durability applications with detailed requirements
- Prototyping in industries like automotive, toys, and crafts
- Suitable for first-version prototypes in R&D and design validation
- Excellent machinability and toughness for screw threading and rigid components

## 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	Value
Hardness	Shore D 86
Flexural modulus (Mpa)	2692~2775 MPa
Flexural strength (Mpa)	69~74 MPa
Tensile modulus (Mpa)	2589~2695 MPa
Tensile strength (Mpa)	38~56 MPa
Elongation at break	12~20%
Poisson's Ratio	/
Impact strength notched Izod (J/m)	48~55 J/m
Heat deflection temperature (°C)	52°C
Glass transition, Tg (°C)	62°C
Coefficient of thermal expansion(/°C)	/
Density (g/cm <sup>3</sup> )	1.13 g/cm <sup>3</sup> @25°C

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



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