

High Detail Resin(Gray)

INDUSTRIAL GRADE MATERIALS FOR SLA 3D PRINTING



MATERIAL NAME

High Detail Resin(Gray)

COLOR

Gray

PROCESS

SLA

PRODUCT DESCRIPTION

High Detail Resin(Gray) is a special material for animation. Pure gray can be directly used for painting and dyeing. The printed parts have smooth surfaces and prominent details, which are very suitable for action figures, works of art, etc.

TYPICAL APPLICATIONS

- Action figures
- Works of art

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 83
Flexural modulus (Mpa)	ASTM D790	2562 MPa
Flexural strength (Mpa)	/	/
Tensile modulus (Mpa)	ASTM D648	2587 MPa
Tensile strength (Mpa)	ASTM D638	47.2 MPa
Elongation at break	ASTM D638	6.4%
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	/	/
Heat deflection temperature (°C)	ASTM D648	53°C
Glass transition, Tg (°C)	/	/
Coefficient of thermal expansion(/°C)	/	/
Density (g/cm ³)	/	/

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



www.unionfab.com

China's Largest 3D Printing Manufacturing Company for
Rapid Prototyping and On-Demand Production Parts.

Email: hello@unionfab.com