

Multi Color Resin

INDUSTRIAL GRADE MATERIALS FOR PolyJet 3D PRINTING



MATERIAL NAME

Multi Color Resin

COLOR

Multi Color

PROCESS

PolyJet

PRODUCT DESCRIPTION

Multi Color Resin opaque colors enable the perfect simulation of high-quality injection molded parts. These new colors meet the 2D graphics standards while providing strong color contrast and color separation. Super realistic labels, graphics or text can be added to the model to simulate silkscreen printing or printed stickers. VeroUltra™ White and VeroUltra™ Black together with PolyJet Vivid colors, allow the creation of highly professional full color models, with realistic finishes. Welcome to the next level of full color modeling.

TYPICAL APPLICATIONS

- Complex designs with intricate details
- Fine-detail models with smooth surfaces
- Moving and assembled parts
- Sales, marketing and exhibition models
- Form and fit testing
- Functional prototyping and testing
- Jewelry, 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	Value
Hardness	83~86 Scale D
Flexural modulus (Mpa)	2000~3200 MPa
Flexural strength (Mpa)	75~110 MPa
Tensile modulus (Mpa)	/
Tensile strength (Mpa)	50~65 MPa
Elongation at break	10~25%
Poisson's Ratio	/
Impact strength notched Izod (J/m)	20~30 J/m
Heat deflection temperature (°C)	HDT @1.82 MPa: 45~50°C
Glass transition, Tg (°C)	/
Coefficient of thermal expansion(/°C)	/
Density (g/cm ³)	1.17~1.18 g/cm ³

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

