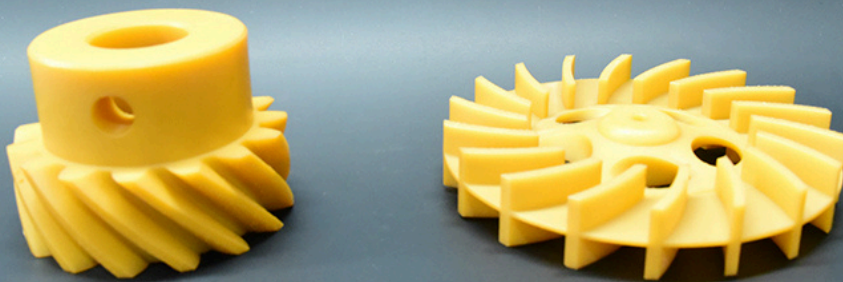


High-temp-220D Resin

INDUSTRIAL GRADE MATERIALS FOR SLA 3D PRINTING



MATERIAL NAME

High-temp-220D Resin

COLOR

Beige

PROCESS

SLA

PRODUCT DESCRIPTION

High-temp-220D Resin is a resin specially designed for SLA 3D printing. It offers excellent heat resistance, with a heat deflection temperature of up to 227°C after simple post-processing. This resin also provides superior precision and reliable surface quality, making it ideal for applications with high-temperature requirements, such as wind tunnels, impellers, motors, and rapid tooling.

TYPICAL APPLICATIONS

- Wind tunnels
- Motors
- Impellers
- Rapid tooling

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 90 |
| Flexural modulus (Mpa) | ASTM D790 | 4321 MPa |
| Flexural strength (Mpa) | ASTM D790 | 116 MPa |
| Tensile modulus (Mpa) | / | / |
| Tensile strength (Mpa) | / | / |
| Elongation at break | / | / |
| Poisson's Ratio | / | / |
| Impact strength notched Izod (J/m) | ASTM D256 | 16 J/m |
| Heat deflection temperature (°C) | ASTM D648 | HDT @0.455 MPa: 227°C HDT @1.82 MPa: 170°C |
| Glass transition, Tg (°C) | / | / |
| Coefficient of thermal expansion (/°C) | / | / |
| Density (g/cm ³) | / | 1.16 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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