

UTR 3500

RESINS FOR SLA 3D PRINTING

**MATERIAL NAME**

UTR 3500

COLOR

White

PROCESS

SLA

PRODUCT DESCRIPTION

UTR 3500 is a low-viscosity stereolithography molding resin for SLA. It is a material that combines rigidity, impact resistance, temperature resistance, and drop resistance. It has passed three biocompatibility tests. Its use in making orthodontic hot-pressed model materials has been widely recognized by customers. It is a classic hot-pressed model orthodontic material.

TYPICAL APPLICATIONS

- Appearance display
- Assembly testing
- Functional prototype testing
- Medical/Dental Models

PRODUCT SAFETY

Handle printed parts according to normal workshop safety practices. Review material-specific handling, finishing, and operating requirements before use.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**
Store parts in a clean, dry environment away from moisture, direct sunlight, and heat.
- **TRANSPORTATION**
Pack parts with cushioning and moisture protection. Avoid impact, compression, and prolonged exposure to heat during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.1 g/cm3
Hardness	ISO 868	Shore D 82
Tensile strength (MPa)	ISO 527	48 MPa
Tensile modulus (MPa)	ISO 527	2800 MPa
Elongation at break	ISO 527	3.5%
Flexural strength (MPa)	ISO 178	60 MPa
Flexural modulus (MPa)	ISO 178	2000 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 55 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 48.5 deg C
Impact strength notched	ASTM D256	21.6 J/m; ASTM D256 (Izod)

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