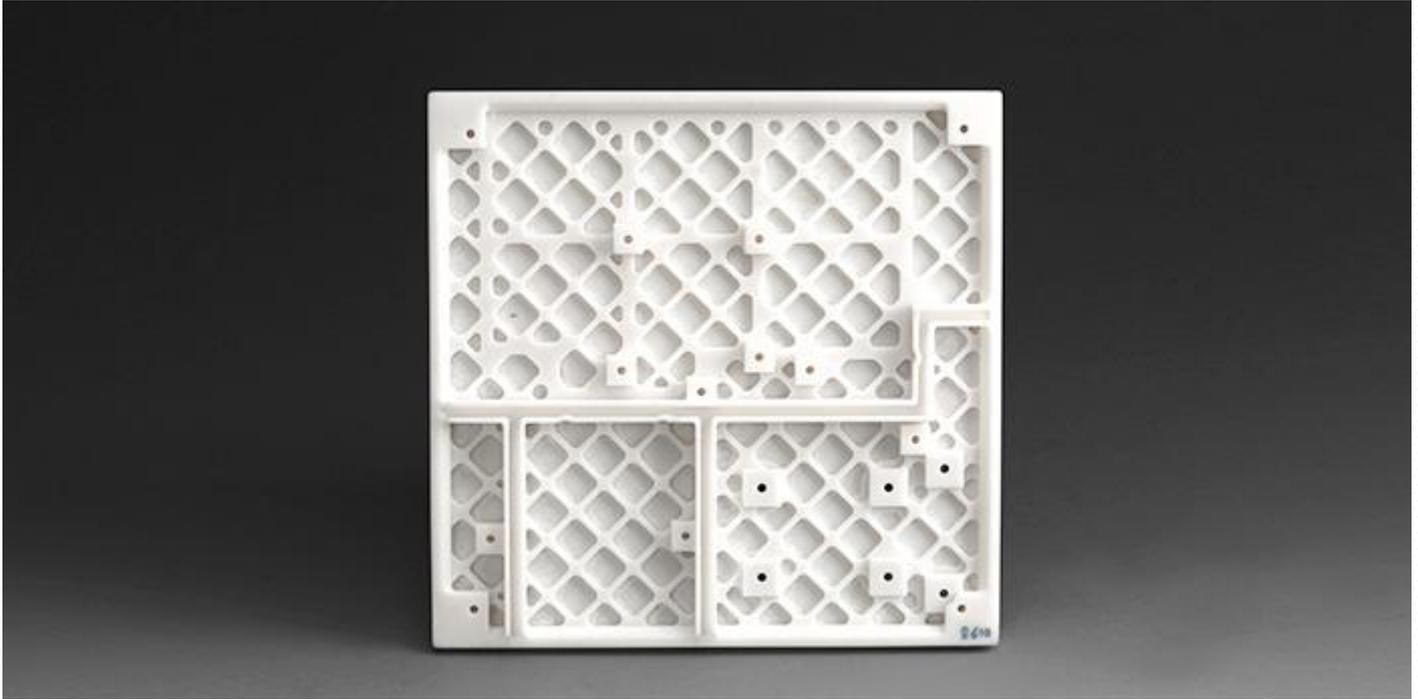


UTR 9000E photosensitive resin is a kind of ABS-like photosensitive resin with high dimensional accuracy and durability. It is suitable for the production of popular products, with low overall shrinkage rate and excellent detail performance. The parts can be used for a long time.



■ ■ Advantages

The shrinkage rate is small, the product size accuracy is excellent; the surface is fine and the resolution is high; the durability of the parts is good.

■ ■ Disadvantages

Average strength and toughness.

■ ■ Tolerance changes over time

3 days: 0.15mm or 0.15%; 7 days: 0.2mm or 0.2%; 15 days: 0.25mm or 0.25%

■ ■ Accuracy

100mm \pm 0.1mm

■ ■ Recommended reasons

The surface of the part is delicate, the dimensional stability is high, and the durability is good. It is widely used to make various functional prototypes, manufacturing tools, etc.

Note

When the material is placed under normal air temperature, the parts will gradually turn yellow and deform over time, especially when exposed to the sun to accelerate the process. It is recommended that you prevent storage in a cool, backlit place. The toughness and strength of the parts are general. If there are higher requirements for strength, toughness, and temperature resistance, the corresponding high-performance resin or nylon materials can be used.

Material parameters

Heat distortion temperature (HDT@0.455 MPa) (ASTM Method D648)	39 ~ 52°C
Shore hardness (ASTM Method D2240)	76 ~ 88D
Tensile strength (ASTM Method D638)	38 ~ 56MPa
Tensile modulus (ASTM Method D638)	2589 ~ 2695MPa
Bending strength (ASTM Method D790)	69 ~ 74MPa
Flexural modulus (ASTM Method D790)	2692 ~ 2775MPa
Elongation at break (ASTM Method D638)	12 ~ 20%
Poisson's ratio (ASTM Method D638)	0.4 ~ 0.44
Notched impact strength (ASTM Method D256)	35 ~ 55J/m

Application areas

- Excellent master models in industrial fields such as consumer electronics and automobiles; production of general parts and functional parts.
- Home appliance structure verification and appearance verification.
- Mechanical and electrical equipment structure and appearance verification.