UTR Therm 1 Resin



UTR-Therm 1 photosensitive resin can withstand temperature up to 130°C, which can simulate the thermal performance of engineering plastics. It is heat-resistant and moisture-resistant, and has high hardness. It can be used in scenes with high temperature resistance requirements such as vacuum plating, water plating, baking paint, and rapid molds.



Advantages

Temperature resistance can reach 110-130°C, excellent dimensional stability, high resolution detail performance, high strength and firmness.

Disadvantages

Average toughness.

Accuracy

100mm ±0.1mm

Recommended reasons

Heat and humidity resistance, suitable for demanding applications, stable production period, high hardness, heat and humidity resistance combined with excellent dimensional stability; this material can simulate the thermal properties of engineering plastics and is used for testing such as pipes and faucets. Ideal for applications such as medium hot air flow or hot water flow.

This material rarely lacks in toughness. If you have more requirements for bending, please consult our sales rep for other high toughness materials.

Material parameters	
Heat distortion temperature (HDT@0.455 MPa) (ASTM Method D648)	101.9°C
Heat distortion temperature (HDT@1.82 MPa) (ASTM Method D648)	85.5°C
Shore hardness (ASTM Method D2240)	83D
Tensile strength (ASTM Method D638)	47.2MPa
Tensile modulus (ASTM Method D638)	3235MPa
Elongation at break (ASTM Method D638)	1.5%
Flexural strength (ASTM Method D790)	96.9MPa
Flexural modulus (ASTM Method D790)	3165MPa

Application areas

- Electronic appliance assembly and special function test.
- Jigs and fixtures for production.
- Sculptures and art display products.
- · Automobile assembly and modification parts.