

TUF 127

RESINS FOR SLA 3D PRINTING



MATERIAL NAME

TUF 127

COLOR

White

PROCESS

SLA

PRODUCT DESCRIPTION

TUF 127 is a white light-curing resin suitable for SLA equipment. It has the characteristics of high temperature resistance, high strength and high toughness, HDT>80 . At the same time, it has excellent dimensional stability and is especially suitable for the production of tooling fixtures, high-temperature prototypes, and new energy samples where the environment has a certain temperature.

TYPICAL APPLICATIONS

- Functional prototype testing
- Appearance display
- Assembly testing
- Automotive interior parts

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	1.12 g/cm3
Hardness	ISO 868	Shore D 87
Tensile strength (MPa)	ISO 527	59 MPa
Tensile modulus (MPa)	ISO 527	2534 MPa
Elongation at break	ISO 527	8%
Flexural strength (MPa)	ISO 178	82 MPa
Flexural modulus (MPa)	ISO 178	2478 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 86 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 71 deg C
Impact strength notched	ASTM D256	34 J/m; ASTM D256 (Izod)

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