TUF 182

RESINS FOR SLA 3D PRINTING



MATERIAL NAME
TUF 182

COLOR
White

PROCESS
SLA

PRODUCT DESCRIPTION

TUF 182 is a white light-curing resin suitable for SLA equipment. It has the characteristics of good toughness and aging resistance. It is especially suitable for small batch functional products, such as water pipe interfaces and electronic product casings, and can be applied to end products.

TYPICAL APPLICATIONS

- Assembly testing
- Appearance display
- Functional prototype testing
- Consumer products and industrial design

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	1.09 g/cm3
Hardness	ISO 868	Shore D 75
Tensile strength (MPa)	ISO 527	29 MPa
Tensile modulus (MPa)	ISO 527	1388 MPa
Elongation at break	ISO 527	23%
Flexural strength (MPa)	ISO 178	41 MPa
Flexural modulus (MPa)	ISO 178	1337 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 50 deg C
Impact strength notched	ASTM D256	31 J/m; ASTM D256 (Izod)

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