

TUF 68(BLK)

RESINS FOR SLA 3D PRINTING



MATERIAL NAME

TUF 68(BLK)

COLOR

Black

PROCESS

SLA

PRODUCT DESCRIPTION

TUF 68(BLK) is a black photocurable resin suitable for SLA equipment. It has excellent strength and toughness, high dimensional accuracy and dimensional stability. Suitable for tooling fixtures, functional samples, electronic accessories and small batches mass production.

TYPICAL APPLICATIONS

- Assembly testing
- Functional prototype testing
- Appearance display
- 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	1.11 g/cm3
Hardness	ISO 868	Shore D 83
Tensile strength (MPa)	ISO 527	40 MPa
Tensile modulus (MPa)	ISO 527	2226 MPa
Elongation at break	ISO 527	27%
Flexural strength (MPa)	ISO 178	49 MPa
Flexural modulus (MPa)	ISO 178	1531 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 48 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 42 deg C
Impact strength notched	ASTM D256	50 J/m; ASTM D256 (Izod)

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