

ESD 001

RESINS FOR SLA 3D PRINTING



MATERIAL NAME

ESD 001

COLOR

Black

PROCESS

SLA

PRODUCT DESCRIPTION

ESD 001 is a light-curing molding resin for SLA with a surface resistivity of $10^6 \Omega/\text{sq}$. It has excellent antistatic properties, effectively preventing electronic components from being damaged by static electricity and dust accumulation. At the same time, it has the characteristics of small warpage and stable slurry, and is suitable for printing anti-static samples such as tooling, transfer boxes, and electrical casings.

TYPICAL APPLICATIONS

- Functional prototype testing
- Assembly testing
- ESD tooling/equipment
- Electronic device housings

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 78
Tensile strength (MPa)	ISO 527	46 MPa
Tensile modulus (MPa)	ISO 527	1580 MPa
Elongation at break	ISO 527	11%
Flexural strength (MPa)	ISO 178	55 MPa
Flexural modulus (MPa)	ISO 178	1840 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 52 deg C
Impact strength notched	ASTM D256	23 J/m; ASTM D256 (Izod)

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