

Elast R80

FLEXIBLE PLASTICS FOR DLP 3D PRINTING



MATERIAL NAME

Elast R80

COLOR

Black

PROCESS

DLP

PRODUCT DESCRIPTION

Elast R80 is a two-component 3D printing resin for DLP/LCD. It is a high-performance elastomer material similar to rubber. Its resin has low viscosity, good molding quality, fast printing speed, and has the characteristics of high resilience, fatigue resistance and tear resistance after molding. Suitable for printing samples of shoe materials, car seat cushions, protective gear, etc.

TYPICAL APPLICATIONS

- Functional prototype testing
- Assembly testing
- Flexible sealing/cushioning
- Footwear/Wearing

PRODUCT SAFETY

Flexible printed parts should be handled according to normal workshop safety practices. Avoid prolonged skin contact with uncured resin or residues, and review material-specific handling and operating requirements before use.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**
Store flexible printed parts in a cool, dry, and dark environment. Keep away from solvents, direct sunlight, ozone sources, and sustained compression.
- **TRANSPORTATION**
Ship with cushioning to avoid compression set, tearing, and surface abrasion. Protect from heat, UV exposure, and chemical contamination during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	0.99 g/cm3
Water Absorption (%)	ISO 62	0.1%
Hardness	ISO 7619-1	Shore A 79
Tensile strength (MPa)	ISO 37	16.6 MPa
Elongation at break	ISO 37	305%

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