

Somos PerFORM

RESINS FOR SLA 3D PRINTING



MATERIAL NAME

Somos PerFORM

COLOR

Off-White

PROCESS

SLA

PRODUCT DESCRIPTION

Unionfab PerFORM molds composite parts that combine high strength and stiffness with excellent high temperature resistance on standard 355 nm stereolithography (SLA) equipment. The material has a low viscosity, which helps improve printing processing efficiency. Its sidewall quality is excellent and its detail resolution is better than other similar composite light-curing materials.

TYPICAL APPLICATIONS

- Functional prototype testing
- Appearance display
- Assembly testing
- Architecture/Interior Design Models

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	1.61 g/cm3
Hardness	ISO 868	Shore D 94
Tensile strength (MPa)	ISO 527	68 MPa
Tensile modulus (MPa)	ISO 527	10500 MPa
Elongation at break	ISO 527	1.1%
Flexural strength (MPa)	ISO 178	120 MPa
Flexural modulus (MPa)	ISO 178	10000 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 132 deg C
Heat deflection temperature @ 1.8 MPa (deg C)	ISO 75	HDT @ 1.8 MPa: 82 deg C
Impact strength notched	ASTM D256	17 J/m; ASTM D256 (Izod)

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