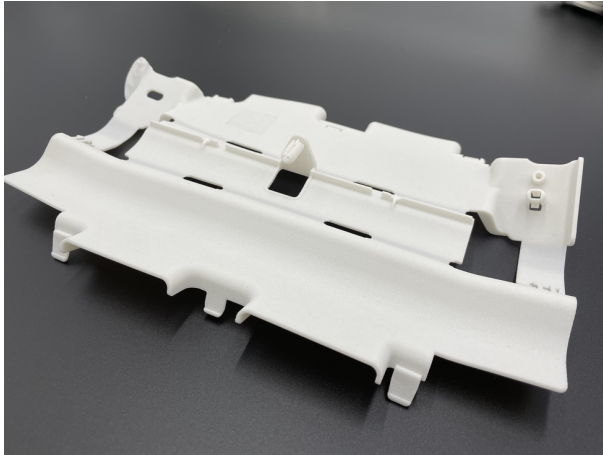


# Nylon 11(White)

## NYLONS FOR SLS 3D PRINTING



### MATERIAL NAME

Nylon 11(White)

### COLOR

White

### PROCESS

SLS

## PRODUCT DESCRIPTION

Nylon PA11 is a bio-based polyamide that is more ductile and impact-resistant than PA12, and has excellent ductility. It excels at those parts that must flex, absorb shock, or withstand repeated stress—living hinges, snaps, and durable functional parts

## TYPICAL APPLICATIONS

- Functional prototype testing
- End-use plastic parts
- Assembly testing
- Appearance display

## PRODUCT SAFETY

Powders and printed parts should be handled in a dry, well-ventilated workspace. Avoid inhaling dust, and keep material away from moisture, open flames, and uncontrolled heat sources.

# PRODUCT DELIVERY & WAREHOUSING

- STORAGE**  
Store printed parts and powder in a cool, dry, sealed environment. Keep away from moisture, direct sunlight, and heat.
- TRANSPORTATION**  
Ship in sealed, moisture-protected packaging with cushioning. Avoid compression, impact, and prolonged exposure to humidity or heat.

# PROPERTIES OF PRINTED MATERIAL

| Properties                                     | Test Method | Value                       |
|------------------------------------------------|-------------|-----------------------------|
| Density (g/cm3)                                | ISO 1183    | 1.01 g/cm3                  |
| Tensile strength (MPa)                         | ISO 527     | 48 MPa                      |
| Tensile modulus (MPa)                          | ISO 527     | 1483 MPa                    |
| Elongation at break                            | ISO 527     | 56%                         |
| Flexural strength (MPa)                        | ISO 178     | 59 MPa                      |
| Flexural modulus (MPa)                         | ISO 178     | 1470 MPa                    |
| Heat deflection temperature @ 0.45 MPa (deg C) | ISO 75      | HDT @ 0.45 MPa: 151.1 deg C |
| Heat deflection temperature @ 1.8 MPa (deg C)  | ISO 75      | HDT @ 1.8 MPa: 51 deg C     |
| Impact strength notched                        | ISO 180     | 26 KJ/m²; ISO 180 (Izod)    |

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