

# Nylon PA12 FS3300PA

## Product Description

White PA12 Nylon is the industry standard for SLS. It features excellent mechanical properties, bio-compatibility, balanced performance, and is ideal for rapid prototyping to functional parts production.

## Key Features

- Excellent mechanical properties
- High toughness, cost-effective
- High oxidation resistance & low water absorption

## Physical Properties

Appearance	White
Bulk Density	0.48 g/cm <sup>3</sup>
Part Density	0.95 g/cm <sup>3</sup>

## Thermal Properties

Melting Point	183 °C
Heat Deflection Temp (HDT), 1.8 MPa GB/T 1040.2-2006	83.5 °C
Heat Deflection Temp (HDT), 0.45 MPa GB/T 1040.2-2006	146.2 °C

## Mechanical Properties

Property Description	Metric
Tensile Strength GB/T 1040.2-2006	46 MPa
Tensile Modulus GB/T 1040.2-2006	1602 MPa
Elongation at Break GB/T 1040.2-2006	36%
Flexural Strength GB/T 1040.2-2006	46.3 MPa
Flexural Modulus GB/T 1040.2-2006	1300 MPa
Impact Strength (notched Izod) GB/T 1843-2008	4.9 KJ/m <sup>2</sup>
Impact Strength (unnotched Izod) GB/T 1843-2008	13.2 KJ/m <sup>2</sup>

Note: Material performance may vary depending on application, processing conditions and end-use environment. The information in this spec sheet is provided as typical values only and is not guaranteed.