

# Data Sheet: SLS Nylon PA12

## Details

Nylon produces parts with long-term durability that is similar to that of standard plastic parts. They have excellent stability for long time and they are resistant to chemicals. However, rough surfaces are produced due to the initial powdery state of nylon.

## Key Features

Mechanical resilience · Impact resistant

## Thermal Properties

Property	Value
Vicat softening temperature [°C]	163
Melting point [°C]	172 - 180

## Mechanical Properties

Property	Value
Tensile strength [MPa]	48
Modulus of elasticity [GPa]	1.7
Flexural strength [MPa]	58
Flexural modulus [GPa]	1.5
Hardness	75
Impact strength [KJ/m <sup>2</sup> ]	53
Elongation at break [%]	24

## Physical Properties

Property	Value
Density [g/cm <sup>3</sup> ]	0.93

## Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit [Materialdatacenter.com](https://www.materialdatacenter.com) for further information on this material.