

# Data Sheet: Nylon PA12 Glass-Filled

## Details

Compared to the Nylon PA12, this has enhanced compressive strength with improved heat distortion temperature. Parts produced are consistent and durable. Its stiffness allows for the production of components for automotive, aerospace and consumer products.

## Key Features

Enhanced compressive strength • Stiff.

## Thermal Properties

Property	Value
Heat deflection [°C]	138
Vicat softening temperature [°C]	165
Coefficient of thermal expansion [K-1 · 10-6]	20
Thermal conductivity [W/m · K]	0.16
Melting point [°C]	165

## Mechanical Properties

Property	Value
Tensile strength [MPa]	60
Modulus of elasticity [GPa]	3.8
Flexural strength [MPa]	134
Flexural modulus [GPa]	4
Hardness	109
Impact strength [KJ/m <sup>2</sup> ]	65

Elongation at break [%]	15
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## Physical Properties

Property	Value
Density [g/cm <sup>3</sup> ]	1.17
Water Absorption [%]	0.3

## 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.