



Data Sheet

PA 12 food grade

Alternative Designations

-

Key Features

High strength • Resistant to chemicals • Biocompatible

Description

This material produces functional parts of the highest quality. It has a well-balanced property profile with excellent long term constant behaviour. It has excellent mechanical characteristics and is often used as a substitute injection moulding plastic. Due to its biocompatibility, it is used in various medical applications. Various finishing operations can be performed on the part manufactured with PA 12 food grade.

Mechanical Properties

Tensile modulus	1650 MPa
Tensile strength	42 – 48 MPa
Elongation at break	18%
Flexural modulus	1.5 GPa
Hardness (Shore D)	75

Thermal Properties

Melting temperature (20°C/min)	176°C
Softening temperature	163°C

Physical Properties

Density	0.93 g/cm ³
---------	------------------------

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.