



Aurora PA12

Polyamide 12 (PA12) is a material well suited for manufacturing functional prototypes, individual units, and serial parts. PA12 has excellent resistance to greases, oils, fuels, hydraulic fluids, water, alkalis, salt solutions, and many solvents. The material provides great stress-cracking resistance, as well as noise and vibration dampening.

High
Toughness

PA 12
Polyamide thermoplastic

Low
Sliding friction





Technical specifications

PROPERTY	VALUE	UNIT
DENSITY OF FINISHED PARTS	1,02	g/cm ³
DENSITY OF POWDER	0,44	g/cm ³
MELTING POINT	186	°C
TENSILE STRENGTH	51	Mpa
ELONGATION AT BREAK	20	%
TENSILE MODULUS	1800	MPa
FLEXURAL MODULUS	1800	MPa
HARDNESS	75	Shore D

Typical applications

- **Functional testing and functional prototypes**
- **Parts for the automobile industry**
- **Medical supplies**
- **Pipelines and fittings for water mains**
- **Industrial components**
- **Small parts**

Advantages

- **Excellent powder-flow properties**
- **Excellent mechanical properties**
- **Excellent recyclability**
- **Excellent surface resolution and feature detail**
- **Desirable surface finish**
- **Good chemical resistance**

