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Aurora PA11

Aurora is a Ployamide 11-based material designed for primary use in industrial applications. It is made from 100% bio-based substances. The material is well suited for technical end products: the material is a sustainable thermoplastic polymer that produces strong UV-stable prints. The material also has superior mechanical performance compared to other polymers, such as Polyamide 12, which is widely used for rapid prototyping. Aurora also meets the USP Class VI requirements for medical applications.

100 %
Renewable source

PA 11
Polyamide termoplastic

UV/Water
Resistant/low uptake

Technical specifications

PROPERTY	VALUE	UNIT
DENSITY OF FINISHED PARTS	1,05	g/cm^3
DENSITY OF POWDER	0,65	g/cm^3
MELTING POINT	200	°C
TENSILE STRENGTH	51	Mpa
ELONGATION AT BREAK	51	%
TENSILE MODULUS	1700	MPa
FLEXURAL MODULUS	1200	MPa
HARDNESS	80	Shore D

Typical applications

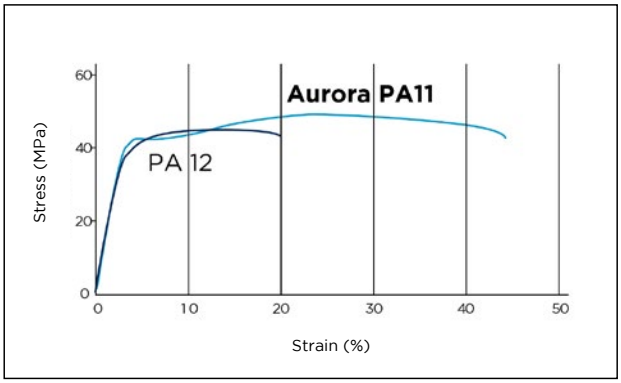
- **Functional testing and functional prototypes**
- **Housings**
- **Mounts**
- **Gears**
- **Small complex parts**

Advantages

- **Superior mechanical properties**
- **UV-stable**
- **Low water uptake**
- **Flexible**
- **High strength**
- **Salt water resistant**

Aurora PA11 vs PA12 Sample

Break comparison



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