



# Pure Strength

Pure Strength is a Polyamide 11 based material made from 100 % bio based materials. The material is a sustainable thermoplastic polymer that produces strong UV-stable products well suited for technical end products. The material has superior mechanical performance compared to polymers such as Polyamide 12 widely used in rapid prototyping.

**100 %**  
Renewable source

**PA 11**  
Polyamide thermoplastic

**UV/Water**  
Resistant/low uptake



# Technical properties

PROPERTIES	VALUE	UNIT
TENSILE MODULUS	1500	MPa
TENSILE STRENGTH	45	Mpa
ELONGATION	45	%
FLEXURAL MODULUS	1200	MPa
DENSITY	0,65	g/cm <sup>3</sup>
MELTING POINT	200	°C

## Typical applications

- **Housings**
- **Mounts**
- **Gears**
- **Small complex parts**
- **Prototypes**
- **Functional parts**

## Advantages

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