



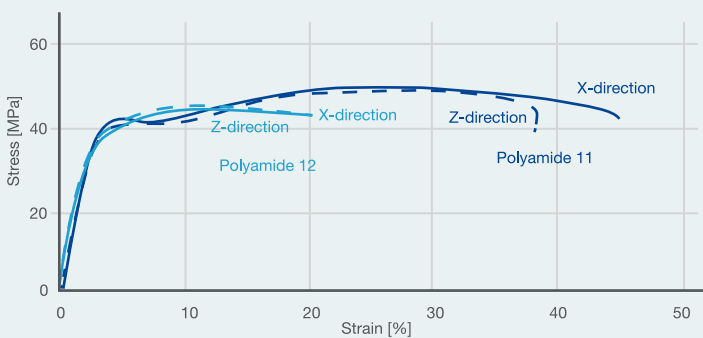
# Ultrasint® PA11 vs. PA12

Why PA11 is the perfect alternative to PA12

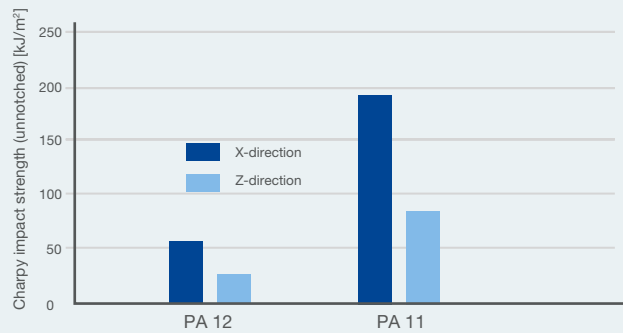
Ultrasint® PA11 is a polymer-based powder with excellent mechanical properties. With outstanding machine compatibility and a balanced mechanical property profile it is the material of choice for a wide range of applications across industries. It is the ideal material for durable parts that have to withstand high mechanical loads and stresses. Ultrasint® PA11 is derived from castor oil, making it a sustainable alternative to PA12. Additionally, it enables components requiring skin contact with its statements related to medical and skin contact regulations. Its mechanical properties like elongation at break or impact resistance outperform PA12, making PA11 the superior go-to material:

## Superior mechanical performance

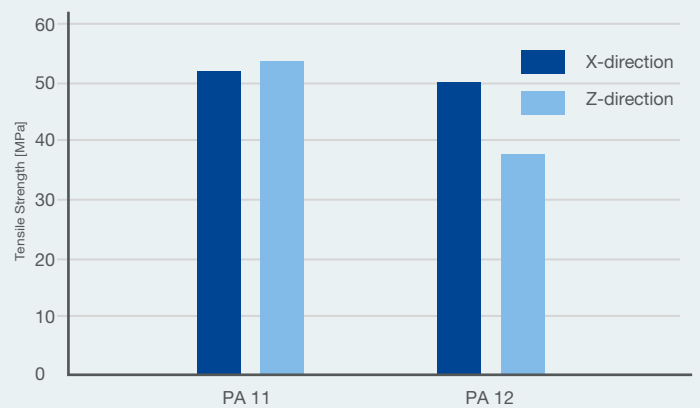
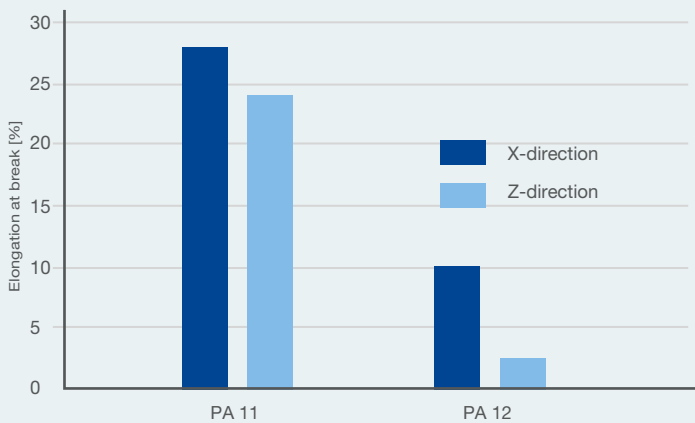
### Higher Elongation at Break at similar Tensile Strength



### Higher Impact Strength



### More isotropic material properties



### Sustainable and economic material solution

- Bio based

### PA11: Several statements available upon request

- USP Class VI
- Biocompatibility
- Food Contact
- Cosmetic packaging