





## Ultrasint® PA11

### Bio-derived PA11 Powder for Durable Parts with **Exceptionally High Toughness**

Ultrasint® PA11 is a bio-derived powder material for advanced applications where toughness matters. Due to its high impact strength, the material is especially suited to producing interior automobile parts or external fender structures. For example, its high ductility allows the production of durable film hinges in one step. Its balanced mechanical property profile makes the material a sustainable alternative to PA12 for functional prototyping, on-demand spare parts and individualized components requiring skin contact.

#### **Benefits at a Glance**

- Easy processing on any PBF equipment
- Exceptionally high toughness
- Does not splinter in most crash cases
- Suitable for skin contact
- Colors: White, black

#### **Applications**

- Car interior parts
- **Bumper components**
- Film hinges
- Functional prototypes and spare parts
- Medium-load serial production parts

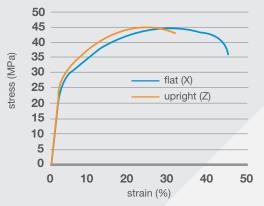
#### **Material Properties**

Tensile strength	45 MPa
Young's modulus	1100 MPa
Elongation at break	45 %
Charpy impact unnotched	198 kJ/m²
HDT B (0.45 MPa, dry)	176 °C

#### **Key Features**

Ultrasint® PA11 offers exceptionally high ductility and impact strength for any application requiring deformation and toughness.

#### **High ductility**



#### **High toughness**



#### **Application Examples**

Ultrasint® PA11 is suitable for a wide range of applications from automotive to medical.



Car interior & exterior parts



Orthopedic parts





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