



# PA11

## Product specification



### General information

Status	In progress
Category	Powder for SLS printing
Material type	Polyamide 11 powder

### Packaging

Type	Plastic container
Weight	2 [kg] (4,4 [lb])
Dimensions	135 x 135 x 280 [mm] (5.3 x 5.3 x 11 [in])

### Material

Granulation	15-76 [ $\mu\text{m}$ ] (0,59 - 3 [mil]), average size 40 [ $\mu\text{m}$ ] (1,6 [mil])
Colour	Grey
Material refreshing ratio <sup>1</sup>	50 [%]

### Parameters

Elongation at Break XY (%)	17 [%]
Tensile Strength (Sturdy under stress)	54 [MPa] (7,83 [ksi])
Impact resistance	Min. 150 [KJ/m <sup>2</sup> ]
Melting point	201 [°C] / 393 [°F]
Shore Hardness (D scale)	76 $\pm$ 1

### Applications

Prototypes and end products, parts printed for environments with high mechanical stress (e.g. hinges), complex spatial shapes, teaching aids, temperature resistant objects, chemical resistant objects, clothing elements, decorations, jewellery.

<sup>1</sup> Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused to the next print.