



PA6 is ideal to use for industrial and professional applications like highly stressed machine elements due to its good mechanical properties and high heat resistance. This high-quality polyamide filament is very easy to print on most desktop 3D printers when compared to other polyamide-based materials on the market. PA6 includes a high impact resistance, crack & scratch resistance and is perfectly made for (semi)professional print user who is looking for the perfect combination of printability and mechanical properties. It can be used in the automotive industry, textile- and office machinery, apparatus- and precision engineering.

Material features:

- · Easy to print with low warping
- Tough and strong
- Designed for industrial applications
- · Increased layer adhesion



Colours:

PA6 is available from stock in 2 colours. Other colours on request



Packaging:

PA6 is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

Filament specs.		
Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties		
Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,2 g/cc
MFI 250°C/2,16kg	ISO 1133	4 g/10 min
Tensile strength at yield	ISO 527	85 MPa
Elongation strain at yield	ISO 527	3,6%
Tensile (E) modulus	ISO 527	3400 MPa
Heat deflection temp. A (1,8MPa)	ISO 75	90°C
Mold shrinkage	DIN 16742	0,3-0,5%
Water absorption 23°C	ISO 62	<0,3%
Printing temp.	Internal method	265±10°C

Additional info:

Recommended temperature for heated bed is 60-70°C and an enclosure is not required. Adhesion is possible on different surfaces. PA6 can be used on most common desktop FDM technology or FFF 3D printers with an all-metal hot end. Dry the spool before printing: 12 hours at 70°C or 4 hours at 100°C.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

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