CCCCCP PROFESSIONAL 3D PRINTERS

PA-12

PA-12 is our high-performance nylon filament with a broad range of mechanical and chemical properties. These properties include, but are not limited to, high impact (even at low temperatures), crack & scratch resistance, food water contact acceptable, superior chemical & weathering resistance backed by a very low water absorption and excellent dimensional stability. PA-12 is the perfect nylon filament for the (semi) professional print user who is looking for the perfect combination of printability and mechanical properties. PA-12 is one of the best solutions for industrial grade applications that need to last.

Features:

- High-performance industrial grade nylon
- Strong & flexible
- High impact, abrasion, crack & scratch resistance
- Superior chemical & UV resistance
- Excellent dimensional stability
- Low water absorption

Colours:

Check the website for available colours.

Filaments specifications			
Size	Ø tolerance	Roundness	
1,75mm	± 0,05mm	≥ 95%	

Material properties			
Description	Testmethod	Typical value	
Specific gravity	ISO 1183	1,02 g/cc	
MFR 280°C/2,16 kg	ISO 1133	15 cm3/10 min	
Tensile strength at yield	ISO 527	60 Mpa	
Strain at yield	ISO 527	8%	
Strain at break	ISO 527	>150%	
Tensile modulus (E-Modulus)	ISO 527	1400 MPa	
Flexural modulus	ISO 178	1700 MPa	
Flexural strength	ISO 178	90 MPa	
Impact strength - charpy method 23°C	ISO 179	14 kJ/m2	
Moisture absorption	ISO 62	3,5%	
Printing temperature	dddrop	260-275°C	
Melting point	ISO 11357	250°C	
Shore D hardness	ISO 868	81	

Additional info:

PA-12 needs to be dried for good 3D print results. A standard air-circulated oven is sufficient. A guideline for drying is 60°C for ± 8 hours. Recommended temperature for heated bed is 110-130°C or even higher. PA-12 will not bond perfect to glass, but adheres well to a variety of 'print stickers' and other bed adhesives. We recommend the use of Dimafix spray or liquid to improve the bonding.

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