

MakerPoint PA12 NYLON

MakerPoint PA12 NYLON is a high performance polyamide filament with a natural color. The polymer PA12 is widely used in the automotive, machinery and engineering industry since it combines mechanical strength, flexibility, transparency, UV resistance and superior chemical resistance. PA12 NYLON is easy to print, even at lower temperatures than normal, it has a high impact strength, a very high glass transition temperature and a low water absorption compared with other polyamides which leaves the mechanical properties unaffected. PA12 NYLON is the filament to print strong usable objects.

Features:

- Strong & flexible
- Crystal clear natural color
- Superior chemical
- UV resistance
- Low water absorption

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

Colors
MakerPoint ABS is available in a large selection of bright colors. Special colors are available upon request with a minimum order quantity of 20kg.

3D-printing	
Description	Typical value
Printing technology	FFF
Printing temp.	255-275°C
Heated bed temp.	± 100-110°C
Cooling fan	100%
Flow Rate	100%

Physical properties		
Description	Test method	Typical value
Density	ISO 1183	1,05 g/cc
Viscosity number (in relation to PA12)	ISO 307	160 ± 10 cm ³ /g (medium viscous)
Tensile strength	ISO 527	58 MPa
Strain at Break	ISO 527	>100%
Tensile modulus	ISO 527	2020 MPa
Impact Strength	ISO 179	13 KJ/m ² (Unnotched No B Notched)
Shore D Hardness	ISO 868	84

Last change: 2014-03-31

The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.

Thermal properties		
Description	Test method	Typical value
Melting temp.	ISO 11357	270°C ± 10°C
HDT 264 psi.anneales	ISO 75-2/A	136°C

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