Technical Data Sheet



PA (Nylon) 3D PRINTING FILAMENT

PA (Nylon) Printing Parameters

	.
Nozzle Temperature	220c – 260c
Bed Temperature	80c – 110c
Print Surface	Most print surfaces ie. Glass, Meta Flex etc
Model Cooling Fan	20% - 50%
Layer Height	0.12mm – 0.3mm
Print Speed	40mm/s – 60mm/s
Idle Speed	60mm/s – 120mm/s
Printing Environment Temperature	Room Temperature – 40c
Retraction Distance	3mm – 5mm
Retraction Speed	30mm/s – 50mm/s
Support Materials	Itself, PVA

PA (Nylon) Technical Specifications			
Physical Properties	Test		
Density	ISO 1183	1.01g/cm3 – 1.06g/cm3	
MFR (250c/2.16kg)	ISO 1133	2g/10min – 5g/10min	
Moisture Absorption	ISO 62	3.2%	
Mechanical Properties			
Tensile Strength	ISO 527	55Mpa – 58Mpa	
Elongation at Break	ISO 527	32% - 36%	
Flexural Modulus	ISO 527	1350Mpa – 1450Mpa	
Flexural Strength	ISO 178	84Mpa – 87Mpa	
Impact Strength	ISO 179	8.5KJ/m2 – 87KJ/m2	
Thermodynamic Properties			
HDT @ 0.455MPa (66psi)	ISO 75	85c	
Weights and Dimensions			
Spool Dimensions	Outside Diameter: 200mm Width: 65mm Internal Hub: 52mm		
Spool Weight (without filament)	150g		
Spool Weight (with filament)	1.15kg		
Package Dimension (LxWxH)	210mm x 210mm x 75mm		
Package Weight	1.3kg		

Storage and Drying:

To prevent moisture absorption, it is recommended to keep your filament in a cool, dark, dry area, preferable sealed in an airtight bag.

Filament can be dried with various methods including a dedicated filament drying machine, food dehydrator, oven, or even your printer if it's fully enclosed. For PA (Nylon) filament we recommend a drying temperature of 80c for a minimum of 12 hours.

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Test Sample Printing Conditions		
3D Printer	Flashforge Guider IIs	
Nozzle Diameter	0.4mm	
Nozzle Temperature	240c	
Printing Speed	50mm/s	
Layer Height	1.2mm	
Infill	100%	



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