



## 3D Printing Filament

# TECHNICAL DATA SHEET - NylonK

**Commercial Name:** NylonK Kevlar Fiber Filament

**Designation:** Fiber reinforced nylon 3D printing material

**Manufacturer:** MatterHackers

## Product Description

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NylonK is a kevlar fiber reinforced nylon 3D printing filament which boasts excellent abrasion resistance and durability, making it ideal for applications that require more stiffness than unfilled nylons and improved durability under frictional forces. For makers looking to create with engineering-grade materials or those in need of ultra-high-performance nylon - this filament delivers.

## Storage

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NylonK filament should be stored between 15 - 25°C, in its original packaging, in a clean and dry environment. When following these recommended storage procedures the minimum shelf life will exceed 12 months.

## Material Specifications

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PROPERTY	VALUE	TEST METHOD - ISO
Heat Deflection	113 °c	ASTM D648 at 66psi
Tensile Strength	5070 PSI	ASTM D638, Type IV
Tensile Elongation	6%	ASTM D638, Type IV
Flexural Modulus	84 KPSI	ASTM D790
Flexural Peak Stress	2.9 KPSI	ASTM D790
Notched Izod Impact	119 Jm-1	ASTM D256
Abrasion Resistance	1.27	



## Filament Specifications

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PROPERTY	VALUE
Diameter 1.75mm	1.75 ± 0.02mm
Diameter 2.85mm	2.85 ± 0.02mm
Density	1.13 g/cm <sup>3</sup>
Suggested Print Temperature	250°C-265°C
Suggested Bed Temperature	65°C-75°C
Suggested Material Drying Temperature	75°C - 8 Hours (active drying recommended)

## Disclaimer

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