

# NYLSTRONG

## TECHNICAL DATA SHEET VERSION 1.0

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Reinforced Nylon (PA6) with great impact resistance and a unique balance between hardness and mechanical resistance. Besides, its high thermal resistance makes this material perfect for industrial purposes.



	TYPICAL VALUE	UNITS	TEST METHOD		
<b>PHYSICAL PROPERTIES</b>					
Material Density	1.58	g/cm <sup>3</sup>	ISO 1183		
Chemical Name	Polyamide with Fiber Glass				
<b>MECHANICAL PROPERTIES</b>					
Tensile Strength	160	MPa	ISO 527 -1/-2		
Notched Izod Impact	11,5	kJ/m <sup>2</sup>	ISO 180		
<b>THERMAL PROPERTIES</b>					
Vicat Softening Temperature	212	°C	ISO 306		
<b>PRINTING PROPERTIES</b>					
Print Temperature	245-265	°C			
Hot Pad	90-100	°C			
Fan Layer	ON (20 - 100)	%			
Fan Height	> 0,2				
<b>SIZE</b>	<b>NET W.</b>	<b>GROSS W.</b>	<b>DIAMETERS</b>	<b>COLOR</b>	<b>PACKAGING</b>
M	750 g	975 g	1.75 mm/2.85 mm	Natural	SmartBag, security seal, desiccant bag



Due to glass loads, this material is **highly abrasive** so to avoid wear in brass nozzles it is **necessary to use hardened steel nozzles**.

**DISCLAIMER:** The information provided in the data sheets is intended to be just a reference. It should not be used as design or quality control values. Actual values may differ significantly depending on the printing conditions. The final performance of the printed components does not only depend on the materials, also the design and printing conditions are important. Smart Materials assumes no responsibility for any damage, injury or loss produced by the use of its filaments in any particular application.