

## MATERIAL DATA SHEET

Nylon – PA12



DENSITY	1 g/cm <sup>3</sup>	
HARDNESS IN SHORE SCALE	70D	
SHRINKAGE	~1 [%]	
ELONGATION AT BREAK	85,17 [%]	
STRENGTH AT BREAK	234,19 [N]	
RESILIENCE FOR V-NOTCH	0,74 J/cm <sup>2</sup>	
YOUNG MODULUS	651,71 [MPa]	
TENSIL AT BREAK	29,71 [MPa]	
PRINT TEMPERATURE	220-260 °C	
HEATED BED	80-120 °C	
NOZZLE	0.2 - 0.4 [mm]	
COOLING	0-60 [%]	
FLOW	100 [%]	

The tests were carried out on standardized samples, in accordance with ISO 148 and ISO 528. The prints were made on a Zortrax M200 printer with models infill up to 80%.

Polyamid PA12 – NYLON -is a construction material perfect to use in: automotive, electrical, electronical and sport industries. NYLON from Print ME is characterized by perfect layer bonding and shrinkage factor below 1.5%. It is a perfect material to produce industrial details such as bushes, bearings, screws, toothed wheels because it is characterized by high resistance to attrition and resilience. It has insulation properties and chemical resistance to grease and oils. Moreover, it has the lowest water absorption of all available polyamids. Working temperature for ready elements may reach from 130-150 °C. Printed-out thin-layered elements show elastic properties. It is a prerequisite to use a heated table (to the temperature of 120°C ) and closed chamber as well as effectively ventilate the room due to the emission of the harmful caprolactam during the extrusion. The polyamid is available in Natural – Ivory colour.

### AVAILABLE COLOURS:

