

# Technical Data Sheet

## Chemical Name:

Polyamide 6/66 copolymer

## Main Applications:

Concept modeling, Educational projects, Design objects, Ideal for tough objects with living hinges (one or two layer walls are flexible), Resistant to chemicals and practically unbreakable.

## Description:

Nylon 6 is one of the most versatile engineering thermoplastics. It is popular in every major market using thermoplastic materials. Because of its excellent balance of strength, ductility and heat resistance, Nylon 6 is an outstanding candidate for metal replacement applications.

## Key Aspects:

Toughest among all engineering plastics. Build fixtures, guides, jigs, guards and other manufacturing aids that require good mechanical and tensile strength. Excellent resistance to heat, oils, solvents and chemicals. Our Neon variety transmits ultraviolet/black light, so you can make objects that glow in the dark.

## Diameter:

1.75 mm, 2.85 mm

## Meters per 750 g:

273,520 / 103,128

## Weight:

750 g

## Weight per meters:

2,74 / 7,27 g

## Density:

1.14

## Meters per kg:

364,694 / 137,504

**Color Information:**

**Color:**

Black  
 Blue  
 Neon  
 Green  
 Natural  
 Red

**PANTONE:**

6 C  
 2935 C  
 Blacklight reactive  
 17-6153 TCX  
 --  
 485 C

**Printing Settings**

**Printing Settings**

230-250°C

**Density (g/cc)**

1.04

**Build Plate Temperature**

Required 70-90°C

**Cooling Fans**

OFF

**Mechanical Properties**

**Draw Ratio**

**4,5**

**5,0**

**5,5**

**6,0**

**Strength** g/d 4,4

5,1

6,2

7,1

**Tenacity** kg 146

172

215

254

**Elongation** % 51

42

36

32

**Tensile Modulus** g/d 12

12

14

14

**Strength** g/d 2,8

3,3

3,6

3,4

**Tenacity** kg 93

111

124

121

**Elongation** % 33

33

31

29

**Line**

**Knot**

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