# PRODUCT DATASHEET



# PA6 (NYLON) FILAMENT

#### **END USE**

Nylon, one of the most widely used engineering thermoplastics, is an extremely versatile engineering plastic. An excellent combination of mechanical performance (toughness, low coefficient of friction, and good abrasion resistance) and cost make Nylon an ideal replacement for a wide variety of materials from metal to rubber.

# **PHYSICAL PROPERTIES**

Product Code(s) PA6-WHITE-2020

Colour(s) Glass filled Nylon (White)

Density (g/cm3) 1.25 (Test Standard - ASTM D792)

Melt index @ 220°C/10kg (g/10min) 15 (Test Standard - ASTM D1238)

Tensile Modulus (MPa) 100.96 (Test Standard - ASTM D638)

Thermal Deformation Temperature (°C) 120.7 (Test Standard - ASTM D648)

Tensile Elongation (%) 16.72 (Test Standard - ASTM D638)

Flexural Modulus (MPa) 3213.96 (Test Standard - ASTM D790)

Flexural Strength (MPa) 126.45 (Test Standard - ASTM D790)

Izod Noteched Impact Strength (kJ/m2) 13.67 (Test Standard - ASTM D256)

### **APPLICATION**

Nylon offers high heat deflection temperature, perfect dimension stability and excellent rigidity.

## **PRINTER SETTINGS**

Diameter: 1.75mm  $\pm 0.05$ mm

Spool Net Weight: 1kg Print Temperature: 250-280°C Bed Temperature: +110°C

Print Speed: 30-80mm/s

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