

## 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/cm <sup>3</sup> )	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 Notched Impact Strength (kJ/m <sup>2</sup> )	13.67 (Test Standard - ASTM D256)

### APPLICATION

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

### PRINTER SETTINGS

Spool Net Weight: 0.8kg	Print Temperature: 240-260°C	Bed Temperature: 60-90°C
Diameter: 1.75mm ± 0.05mm	Print Speed: 30-80mm/s	Travel Speed 90-150mm/s