

Technical data sheet PA (Nylon)

2022-04-04

Filament: [PA \(Nylon\)](#).

Brand name: [filalab](#) www.filalab.lt

Usage: 3D filament for FDM 3D printers.

Manufacturer: [UAB filalab, Vilnius, Lithuania](#).

Printing recommendations:

Bed temperature: $^{\circ}\text{C} \pm 110^{\circ}\text{C}$

Extruder temperature: $270^{\circ}\text{C} \pm 10^{\circ}\text{C}$

Diameter tolerance: $1.75 \text{ mm} \pm 0.03 \text{ mm}$

Material Properties

Basic properties:

Basic properties	Value	Method
Relative Viscosity (96% H2SO4)	4.05	JIS K6810
Density	1,14 g/cm ³	DIN 53479
Melting point	188 C	ISO 11357

Mechanical properties:

Physical properties	Value	Method
Tensile Strength at Yield	22 - 26 MPa	ISO 527-3
Tensile Strength at Break	120 – 140 MPa	ISO 527-3
Tensile Elongation at Break	500 - 520 %	ISO 527-3
Tensile Modulus	450 – 550 MPa	ISO 527-3
Tear Resistance	2,3 – 2,5	ASTM D1922

Note:

These results should be regarded as guide values only. Values depend on printing settings, print atmosphere conditions.