



## 3D Printing Filament

# TECHNICAL DATA SHEET - NylonG

Commercial name: NylonG  
Raw material: Glass fiber reinforced polyamide  
Designation: 3D printing applications  
Manufacturer: MatterHackers

### Material Specifications

PROPERTY	VALUE	TEST METHOD - ISO
Density	1,00 g / cm <sup>3</sup>	1183
Melting point	180°C	11357
Tensile Modulus	4000 MPa	527
Tensile Strength	95 MPa	527
Impact strength	80 kJ / m <sup>2</sup>	179 / 2-1eU
Shore hardness	77 MPa	2039-1
Heat deflection temp. HDT/A	160°C	75
Thermal expansion coefficient	0,1 10 <sup>-4</sup> / K	11359
Max usage Temp. long term	90-120°C	2578
Max usage Temp. short term	150°C	2578D
Dielectric strength	-	IEC 60243
Specific volume resistivity	10 <sup>11</sup> Ωm	IEC 60243
Flammability	HB	1210
Linear mould shrinkage	0,5	294

### Filament Specifications

PROPERTY	VALUE
Diameter 1.75mm	1.75 ± 0.05 mm
Diameter 2.85mm	2.85 ± 0.05 mm
Roundness deviation	max 2%
Suggested print temperature	Between 250°C and 265°C
Suggested print speed	40 mm / s
Suggested bed temperature	60°C / 70°C