

# Technical datasheet

## PA Blue Metal Detectable

color**Fabb**

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colorFabb PA Blue Metal Detectable is a 3D printing filament infused with metal detectable particles. The blue color and metal particles makes this a readily detectable filament.

### TYPICAL MATERIAL PROPERTIES – 3D Printed

Mechanical properties	Unit	Value	Method
Tensile modulus	MPa	3120	ISO 527
Tensile strength	MPa	65	ISO 527
Elongation at break	%	4,5	ISO 527
Charpy notched impact strength	kJ/m <sup>2</sup>	3,1	ISO 179-1 eU
Charpy unnotched impact strength	kJ/m <sup>2</sup>	25,9	ISO 179-1 eU
Heat Deflection temperature (amorphous)	°C	60	ISO 75-1

Physical and Thermal properties	Unit	Value	Method
Specific Gravity	g/cm <sup>3</sup>	1,25	ISO 1183-3
Melt Flow Index (250°C / 2.16 kg)	g/10 min	6	ISO 1133-A
Heat Deflection Temperature (A)	°C	90	ISO 75

### TYPICAL MATERIAL PROPERTIES – Injection Molded

Mechanical properties	Unit	Value	Method
Tensile modulus	MPa	3800	ISO 527
Tensile strength	MPa	85	ISO 527
Elongation at break	%	4	ISO 527
Charpy unnotched impact strength	kJ/m <sup>2</sup>	81	ISO 179-1 eU

### FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0.1mm	≥ 95%
2,85 mm	± 0.1mm	≥ 95%

**Netto filament weight** 750 g

#### Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.