

SECTION 1 - TYPICAL MATERIAL PROPERTIES

Physical Properties	Unit	Value
Density	g/cc	7.8
Humidity Absorption	%	No information available
Tensile Strength	MPa	23.3
Tensile Elongation	%	7.57
Flexural Strength	MPa	45.5
Flexural Modulus	GPa	3500
Izod Impact Strength	kJ/m ²	95.2

SECTION 2 - FILAMENT SPECIFICATION

Nominal Diameter	Diameter Tolerance	Ovality
1.75mm	± 0.05	≥ 95%
2.85mm	± 0.05	≥ 95%
Net Filament Weight	Metal Content	
1000 / 500 grams	91 - 93%	

SECTION 3 - GUIDELINE FOR PRINT SETTINGS

Advised Printing Temperature	205 - 235°C
Advised Build Plate Temperature	40 - 50°C
Build Plate Surface Type	Glass / PEI / G10 / Powder Coated Spring Steel
Build Plate Preparation	Glue Stick (on glass) Blue Painter's Tape (on PEI/G10) - Nothing needed for Powder Coated Spring Steel
Print Cooling	None Required
Advised Printing Speed	60mm/sec (3600mm/min)
Nozzle Size/Type	0.6mm / Hardened Steel

SECTION 4 - ADDITIONAL INFORMATION

Sintering Temperature: 2200°C (3992°F)

This filament is abrasive and will wear standard brass nozzles fast. The Virtual Foundry, Inc recommends a hardened steel nozzle. A Filawarmer is not required for this filament.

DISCLAIMER: The product and technical information provided in this datasheet is correct to the best of Rapid 3DShield's 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.