

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		92 - 95%	
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)	
Nooze Size/Type		0.6mm / Hardened Steel	

SECTION 4 - ADDITIONAL INFORMATION

Sintering Temperature: 1200-1400°C (2192-2552°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.