

**TECHNICAL DATA SHEET**
**PLA**

<b>Material</b>	PLA
<b>Color</b>	IT APPLIES TO EACH COLOR OF THE COLORFIL BRAND
<b>Properties</b>	1,75 mm
<b>Diameter</b>	+/- 0,05 mm
<b>Diameter tolerance</b>	98%
<b>Printing temperature</b>	200-220°C
<b>Heatbed temperature</b>	0-60°C
<b>Net weight</b>	0.5kg / 1 kg / 3kg
<b>Gross weight</b>	0.85kg / 1.4kg / 3.95kg
<b>Package</b>	vacuum packaging, carton box

**Properties of the material**

<b>Physical Properties</b>	<b>Unit</b>	<b>ASTM Method</b>
Specific Gravity, g/cc	1.24	D792
MFR, g/10 min	6	D1238
Relative Viscosity	4.0	D5225
Glass Transition Temperature, °C	55-60	D3418
<b>Mechanical Property</b>		
Tensile Yield Strength, psi (MPa)	8700 (60)	D882
Tensile Strength at Break, psi (MPa)	7700 (53)	D882
Tensile Modulus, psi (MPa)	524,000 (3.6)	D882
Tensile Elongation, %	6	D882
Notched Izod Impact, ft-lb/in (J/m)	0.3 (16)	D256
Flexural Strength, psi (MPa)	12,000 (83)	D790
Flexural Modulus, psi (MPa)	555,000 (3.8)	D790
Heat Distortion Temperature, °C 66 psi (0.45 Pa)	55	E2092