



PLA Filament 1.75 mm



PLA (Polylactic acid) is the best material for getting started with your 3D printer, as it:

- Hardens quickly
- Has minimal thermal tension
- Has minimal deformation
- Does not require Kapton tape
- Does not require heated bed
- Acetone-resistant

BQ PLA filament is made from 100% PLA.

PLA is a biodegradable product obtained from plant-derived sugars.



Filament Diameter: 1.75 mm
 Thickness: 1.24 g/cm³ (ASTM D792)
 Weight: 1 kg
 Spool Size: 195 mm x 73 mm
 Spool axle diameter: 52 mm



Compatible with: any printer that uses 1.75 mm filament

SKU: F000097



Coral

SKU: F000098



Turquoise

SKU: F000099



Violet

SKU: F000100



Sulphur yellow

SKU: F000101



Topaz blue

SKU: 05BQFIL023



Aubergine

SKU: 05BQFIL024



Magenta

SKU: 05BQFIL025



Sky blue

SKU: 05BQFIL026



Coal black

SKU: 05BQFIL027



Pure white

SKU: 05BQFIL028



Vitamine orange

SKU: 05BQFIL029



Ruby red

SKU: 05BQFIL030



Grass green

SKU: 05BQFIL031



Bottle green

SKU: 05BQFIL032



Ash grey

SKU: 05BQFIL033



Transparent

SKU: 05BQFIL034



Sunshine yellow



PLA filament: technical datasheet

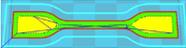
PROPERTY	VALUE	UNITS	TEST METHOD
General properties			
Specific gravity	1.24	g/cm ³	ASTM D792
Mechanical properties			
Flexural elastic modulus	3600	MPa	ISO 178
Flexural Strength	108	MPa	ISO 178
Hardness, Sh D	85	Sh D	ASTM D2240
Thermal properties			
Heat distortion temperature HDT B (0,45MPa)	56	°C	ISO 75/2B
Melting temperature	145-160	°C	ASTM D3418
Glass Transition Temperature	56-64	°C	ASTM D3418

In addition to the described properties, we have performed tensile tests on tensile specimen printed with our PLA and on injection moulded tensile specimen in order to ascertain the mechanical properties of the final printed object. The following table contains the results:

Mechanical properties	Injection moulded tensile specimen	Printed tensile specimen ^a	Printed tensile specimen ^b	Units	Test method
Tensile strength at break	52	50	39	MPa	ISO 527
Tensile elongation at break	5	9	4	%	ISO 527
Tensile modulus	1320	1230	1120	MPa	ISO 527

^a Stretch-direction is parallel to the layers.

^b Stretch-direction is perpendicular to the layers.

Tensile specimen	Layer height (mm)	Shell thickness (mm)	Bottom/top thickness (mm)	Fill density (%)	Print design
Tensile specimen print-direction is parallel to the layers	0.2	2	0.2	100	
Tensile specimen print-direction is perpendicular to the layers	0.3	1	0.3	100	