

# Technical Data Sheet

v1.0

Material
High Heat +Tough PLA (Polylactic Acid) made from NatureWorks™ 3D870 filament

Physical Properties	Test Method	Units	Value
Density	D792	g/cc	1.22

Mechanical Properties	Test Method	Units	Value
Izod Impact	ASTM D256*	J/m	289
Flexural Strength	ASTM D790*	MPa	71.8
Flexural Modulus	ASTM D790*	MPa	2518
Tensile Strain @ Break %	ASTM D638*	%	6.79
Tensile Stress @ Break	ASTM D638*	MPa	37
Tensile Stress @ Yield	ASTM D638*	MPa	43.7
Tensile Strain @ Yield %	ASTM D638*	%	1.97

Thermal Properties	Test Method	Units	Value
Heat Deflection Temp	ASTM D648*	°C	95.3

\*Testing specimens **3D printed** with a 0.4mm nozzle, 0.2mm layer height, and 100% infill. The specimens were printed flat (XY) on the build plate at the temperatures according to each materials print settings located at [www.pushplastic.com/pages/print-settings](http://www.pushplastic.com/pages/print-settings)

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