

Technical Data Sheet

v1.0

Material
High Heat PLA (Polylactic Acid) made from NatureWorks™ 3D850 filament

Physical Properties	Test Method	Units	Value
Density	D1505	g/cc	1.24

Mechanical Properties	Test Method	Units	Value
Izod Impact	ASTM D256*	J/m	42
Flexural Strength	ASTM D790*	MPa	103
Flexural Modulus	ASTM D790*	MPa	3511
Tensile Strain @ Break %	ASTM D638*	%	4.91
Tensile Stress @ Break	ASTM D638*	MPa	52.8
Tensile Stress @ Yield	ASTM D638*	MPa	58.1
Tensile Strain @ Yield %	ASTM D638*	%	2.06

Thermal Properties	Test Method	Units	Value
Heat Deflection Temp	ASTM D648*	°C	91.8

*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

www.PushPlastic.com



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