

Technical Data Sheet

v1.0

Material
PLA (Polylactic Acid) made from NatureWorks™ 4043D 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	43.5
Flexural Strength	ASTM D790*	MPa	98.6
Flexural Modulus	ASTM D790*	MPa	3493
Tensile Strain @ Break %	ASTM D638*	%	5.35
Tensile Stress @ Break	ASTM D638*	MPa	50.7
Tensile Stress @ Yield	ASTM D638*	MPa	56
Tensile Strain @ Yield %	ASTM D638*	%	1.8

Thermal Properties	Test Method	Units	Value
Heat Deflection Temp	ASTM D648*	°C	54.1

*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



Disclaimer: The data contained on this datasheet is provided free of charge or obligation. The data is not intended to substitute any testing that maybe required to determine if a material is suitable for a particular application. This data should not be used to establish specifications limits or used alone as the basis of design. Any use of the data is accepted at the recipient's sole risk.