

# Technical Data Sheet

v1.0

Material
ASA (Acrylonitrile styrene acrylate) filament

Physical Properties	Test Method	Units	Value
Density	D792	g/cc	1.06

Mechanical Properties	Test Method	Units	Value
Izod Impact	ASTM D256*	J/m	191
Flexural Strength	ASTM D790*	MPa	62.2
Flexural Modulus	ASTM D790*	MPa	1948
Tensile Strain @ Break %	ASTM D638*	%	9.65
Tensile Stress @ Break	ASTM D638*	MPa	30.5
Tensile Stress @ Yield	ASTM D638*	MPa	36.5
Tensile Strain @ Yield %	ASTM D638*	%	2.21

Thermal Properties	Test Method	Units	Value
Heat Deflection Temp	ASTM D648*	°C	96

\*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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