

Technical Data Sheet

v1.0

| Material |
|--|
| ABS (Acrylonitrile butadiene styrene) filament |

| Physical Properties | Test Method | Units | Value |
|---------------------|-------------|-------|-------|
| Density | D792 | g/cc | 1.03 |

| Mechanical Properties | Test Method | Units | Value |
|--------------------------|-------------|-------|-------|
| Izod Impact | ASTM D256* | J/m | 38.9 |
| Flexural Strength | ASTM D790* | MPa | 60.8 |
| Flexural Modulus | ASTM D790* | MPa | 2138 |
| Tensile Strain @ Break % | ASTM D638* | % | 13.1 |
| Tensile Stress @ Break | ASTM D638* | MPa | 29.1 |
| Tensile Stress @ Yield | ASTM D638* | MPa | 34.4 |
| Tensile Strain @ Yield % | ASTM D638* | % | 1.71 |

| Thermal Properties | Test Method | Units | Value |
|----------------------|-------------|-------|-------|
| Heat Deflection Temp | ASTM D648* | °C | 93.7 |

*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.