



Innovating Tomorrow's Materials

Technical Data Sheet Rev 1.0

## Technical Data sheet: Performance ABS

Physical Properties	Standard	Unit	Nominal Value
Specific Gravity	D792	g/cc	1.04
Melt Flow Rate	D1238	g/10 min	6
Melt Temperature	D3418	°C	190+
Glass Transition Temperature	D3418	°C	104

Mechanical Properties	Standard	Unit	Nominal Value
Tensile Strength, Yield	D638	MPa	41
Tensile Elongation	D638	%	22
Izod Strength, Notched	D256	J/m	160
Tensile Strength	D638	MPa	2000
Heat Distortion Temperature (0.45 MPa)	E2092	°C	> 91

Flammability	Standard	Unit	Nominal Value
Rating	UL 94	@ 1.47 mm	HB

Print Settings	
Extruder Temperature / °C	235 – 275
Bed Temp / °C	100 – 110
Heated Chamber	Not required
Nozzle Specifications / mm	> 0.15
Bed Adhesion	Glue stick, PEI (Kapton), ABS Slurry
Layer Height / mm	> 0.1
Drying Specifications	2 – 4 hours @ 85 °C