

		ABS	<b>80</b> Flexible	PLA	HIPS	PETG	Nylon	Carbon	ASA	Polycarbonate	Polypropylene	Metal Filled	Wood Filled	PVA
		Learn More	Learn More	Learn More	Learn More	Learn More	Learn More	Fiber Filled Learn More	Learn More	Learn More	Learn More	Learn More	Learn More	Learn More
Compare Selected														
Iltimate Strength	?	40 MPa	26 - 43 MPa	65 MPa	32 MPa	53 MPa	40 - 85 MPa	45 - 48 MPa	\$\$ MPa	72 MPa	32 MPa	20 - 30 MPa	46 MPa	78 MPa
tiffness	?	5/10	1/10	7.5 / 10	10/10	5/10	5/10	10/10	5/10	6/10	4/10	10/10	8/10	3/10
urability	?	8/10	9/10	4/10	7/10	8/10	10/10	3/10	10/10	10/10	9/10	4/10	3/10	7/10
Maximum Service emperature	?	98 ℃	60 - 74 °C	52 ℃	100 °C	73 °c	80 - 95 °C	52 ℃	95 °C	121 ℃	100 ℃	52 °C	52 °C	75 °C
oefficient of Thermal xpansion	?	90 µm/m-*C	157 µm/m-*C	68 µm/m-°C	80 µm/m-*C	60 µm/m-°C	95 µm/m.*C	57.5 µm/m-°C	98 µm/m-1C	69 µm/m-*C	150 µm/m-°C	33.75 µm/m-°C	30.5 µm/m-*C	85 µm/m-°C
Density	?	1.04 g/cm <sup>3</sup>	1.19 - 1.23 g/cm <sup>3</sup>	1.24 g/cm <sup>3</sup>	1.03 - 1.04 g/cm <sup>3</sup>	1.23 g/cm <sup>3</sup>	1.06 - 1.14 g/cm <sup>3</sup>	1.3 g/cm <sup>3</sup>	1.07 g/cm <sup>3</sup>	1.2 g/cm <sup>3</sup>	0.9 g/cm <sup>3</sup>	2 - 4 g/cm <sup>3</sup>	1.15 - 1.25 g/cm <sup>3</sup>	1.23 g/cm <sup>3</sup>
rice (per kg)	?	510 - 540	530 - 570	510 - 540	524 - 532	520 - 560	525 - 565	530 - 580	538 - 540	\$40 - \$75	560 - 5120	550 - 5120	\$25 - \$55	540 - 5110
rintability	?	8/10	6/10	9/10	6/10	9/10	8/10	8/10	7/10	6/10	4/10	7/10	8/10	5/10
xtruder Temperature	?	220 - 250 °C	225 - 245 °C	190 - 220 °C	230 - 245 ℃	230 - 250 ℃	220 - 270 ·c	200 - 230 °C	235 - 255 ℃	260 - 310 °C	220 - 250 °C	190 - 220 °C	190 - 220 °C	185 - 200 °C
ed temperature	?	95 - 110 °C	45 - 60 ℃	45 - 60 °C	100 - 115 °C	75 - 90 °C	70 - 90 °C	45 - 60 °C	90 - 110 °C	80 - 120 °C	85 - 100 °C	45 - 60 °C	45 - 60 °C	45 - 60 °C
leated Bed	?	Required	Optional	Optional	Required	Required	Required	Optional	Required	Required	Required	Optional	Optional	Required
tecommended Build furfaces	?	Kapton Tape, ABS Slurry	PEI, Painter's Tape	Painter's Tape, Glue Stick, Glass Plate, PEI	Glass Plate, Glue Stick, Kapton Tape	Glue Stick, Painter's Tape	Glue Stick, PEI	Painter's Tape, Glue Stick, Glass Plate, PEI	Glue Stick, PEI	PEI, Commercial Adhesive, Glue Stick	Packing Tape, Polypropylene Sheet	Painter's Tape, Glue Stick, PEI	Painter's Tape, Glue Stick, PEI	PEI, Painter's Tape
other Hardware equirements	?	Heated Bed, Enclosure Recommended	Part Cooling Fan	Part Cooling Fan	Heated Bed, Enclosure Recommended	Heated Bed, Part Cooling Fan	Heated Bed, Enclosure Recommended, May Require All Metal Hotend	Part Cooling Fan	Heated Bed	Heated Bed, Enclosure Recommended, All Metal Hotend	Heated Bed, Enclosure Recommended, Part Cooling Fan	Wear Resistant or Stainless Steel Nozzle, Part Cooling Fan	Part Cooling Fan	Heated Bed, Part Cooling Fan







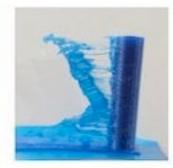
UNDER



OVER



HOLES OR GAPS IN TOP LAYER



STRINGING OR OOZING



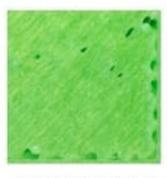
**OVERHEATING** 



FAILURE TO FEED FILAMENT OR STOPS MID PRINT



**WEAK INFILL** 



GAPS BETWEEN INFILL AND OUTLINE



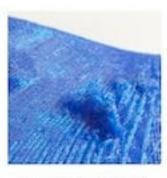
CURLING/ PEELING OFF PRINT BED



SCARS OR DRIPS ON TOP SURFACE



SIDE LAYER SURFACE ISSUES



CLUMPING ON TOP SURFACE



OVERLY MATTE OR TEXTURED SURFACE FINISH



OUTER SHELL NOT STICKING TO INNER SHELL

