



Description

ASA Prime is our high-end zero warp engineering grade filament, based on regular ASA. Due to our enhanced formulation, ASA Prime has exceptional strength with a high impact resistance and excellent interlayer adhesion.

With ASA Prime you will create precise, detailed prints that are UV and weather resistant, making it the perfect material for outdoor applications.

Typical properties

	Standard	Value	Unit
Specific gravity	ISO 1133	1.15	g/cc
Melt flow rate	ISO 1133	12.9	cm ³ /10 min
Melting temp.	ISO 294	230±10	°C
Heat deflect. temp.	ISO 75	97	°C

Typical properties (3D printed)

	Standard	XY Value	XZ Value	ZX Value	Unit
Tensile Strength	ISO 527-2	37.6	43.0	9.4	MPa
Yield Strength	ISO 527-2	30.1	31.4	/	MPa
Tensile Modulus	ISO 527-2	1900	2000	1600	MPa
Strain at Yield	ISO 527-2	2.9	3.2	0.6	%
Flexural Strength	ISO 178	56.0	68.8	15.6	MPa
Flexural Modus	ISO 178	1900	2000	1700	MPa
Impact Strength	ISO 179	13.9	/	/	kJ/m ²

All specimens were printed with 100% infill, 2 shells and a layer height of 0.2mm

Printing recommendations

	Standard	Value	Unit
Printing temp.	AF	240±10	°C
Bed temp.	AF	90	°C
Printing speed	AF	≤300	mm/s
Cooling	AF	30	%
Bed surface	/	Textured PEI	/

