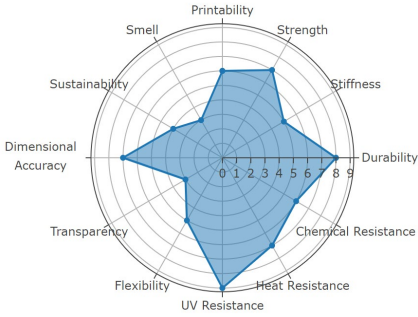


Description

ASA is one of the most popular technical filaments on the market because it offers high UV, water and chemical resistance. Due to its optimal performance and longevity in demanding environments, this material is perfect for electrical housings, tools, outdoor appliances, sporting goods, molded components and other similar applications.



Typical properties

	Standard	Value	Unit
Specific gravity	ISO 1133	1.07	g/cc
Melt flow rate	/	/	cm ³ /10 min
Melting temp.	ISO 294	200-250	°C
Heat deflect. temp.	ISO 75	86	°C

Typical properties (3D printed)

	Standard	XY Value	XZ Value	ZX Value	Unit
Tensile Strength	ISO 527-2	41.1	42.8	18.5	MPa
Yield Strength	ISO 527-2	31.7	31.9	0.0	MPa
Tensile Modulus	ISO 527-2	2000	2000	1600	MPa
Strain at Yield	ISO 527-2	5.8	3.9	1.3	%
Flexural Strength	ISO 178	64.8	68.1	28.2	MPa
Flexural Modulus	ISO 178	2000	2100	1600	MPa
Impact Strength	ISO 179	/	/	/	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	240-260	°C
Bed temp.	AF	90-120	°C
Printing speed	AF	50-100	mm/s
Cooling	AF	30	%
Bed surface	/	PEI, BUILDTAK	/

